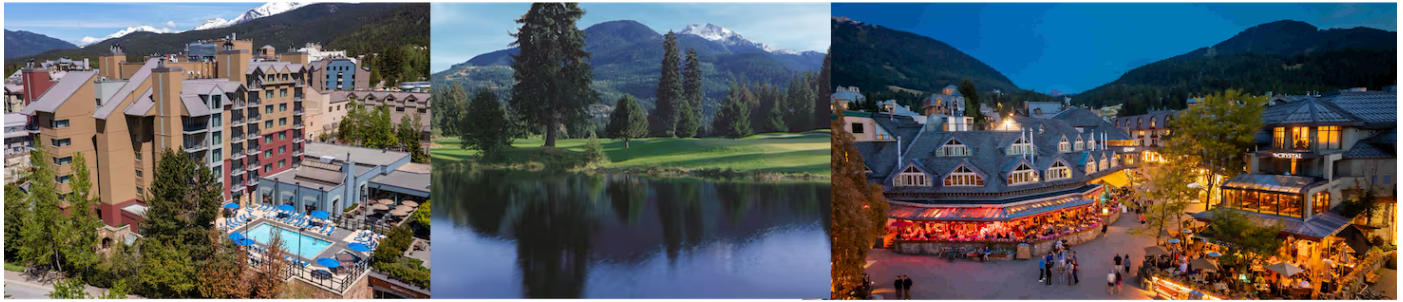




# **2026 AAS/AIAA Astrodynamics Specialist Conference**

*Whistler, British Columbia, July 26-30, 2026*



## **CONFERENCE PROGRAM**

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## Conference Chairs

**AAS General Chair**  
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Embry-Riddle Aeronautical University  
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Conference website: [https://www.space-flight.org/docs/2026\\_summer/2026\\_summer.html](https://www.space-flight.org/docs/2026_summer/2026_summer.html)

# Conference Information

## General Information

The 2026 AAS/AIAA Astrodynamics Specialist Conference, hosted by the American Astronautical Society (AAS) and co-hosted by the American Institute of Aeronautics and Astronautics (AIAA), will be held July 26-30 in Whistler, British Columbia, Canada. The conference is organized by the AAS Space Flight Mechanics Committee and the AIAA Astrodynamics Technical Committee.

## Online Conference Program

The most current schedule, room assignments, and presentation information are available through the online conference program: <https://www.xcdsystem.com/aas/program/31gNo02/index.cfm>

## Registration

Conference registration is available at: <https://www.xcdsystem.com/aas/attendee/index.cfm?ID=FKloc5H>

| Registration Type    | Early<br>On or before Jun. 14 | Regular<br>Jun. 15-Jul. 9 | Walk-up<br>Jul. 10 onward |
|----------------------|-------------------------------|---------------------------|---------------------------|
| Full - Member        | \$780                         | \$830                     | \$930                     |
| Full - Non-member    | \$880                         | \$930                     | \$1,030                   |
| Student - Member     | \$430                         | \$480                     | \$580                     |
| Student - Non-member | \$475                         | \$525                     | \$625                     |
| Retiree - Member     | \$430                         | \$480                     | \$580                     |
| Retiree - Non-member | \$480                         | \$530                     | \$630                     |

The online registration system accepts Visa, Mastercard, Discover, and American Express. Registration fees are calculated at the time of payment. Refund terms are posted on the conference website.

## Conference Proceedings

Complete manuscripts and presentations must be submitted through the conference system by the stated deadlines. Only papers that satisfy the conference submission and presentation requirements will be included in the official proceedings.

# **Registration, Visa, and Code of Conduct**

## **Visa Information**

Conference participants are responsible for reviewing and complying with the Canadian visa requirements applicable to their country of citizenship. Because the conference is held outside the United States, the organizers cannot provide official visa support or invitation letters. Participants may use their abstract acceptance email and registration invoice as supporting documentation. If needed, a letter confirming registration and attendance may be provided at the conference.

## **Code of Conduct**

All participants are expected to follow the AAS conference attendance code of conduct. The current policy is available through the conference website.

## **Cancellation and Refunds**

A full refund, less credit-card fees, is available through the end of the Early registration period. During the Regular registration period, a 90 percent refund is available. No refunds are available after the Regular registration period ends. Refund requests should be directed to the conference General Chairs.

## **Registration Notes**

Registration desks are located in the hotel lobby during the posted hours. Attendees should retain their registration confirmation and conference identification materials throughout the meeting.

## Conference Location

### Hilton Whistler Resort & Spa

|                              |                                                       |
|------------------------------|-------------------------------------------------------|
| <b>Address</b>               | 4050 Whistler Way, Whistler, British Columbia, Canada |
| <b>Phone</b>                 | +1 604-932-1982                                       |
| <b>Email</b>                 | concierge@hiltonwhistler.com                          |
| <b>Reservations Centre</b>   | 604-966-5000, Option 1 for Reservations               |
| <b>Booking by Phone</b>      | 1-800-515-4050, press 1 for Reservations              |
| <b>Conference Group Code</b> | AAS26                                                 |

The conference booking link is valid for conference dates only. To request pre- or post-conference nights, contact the Hilton Whistler Reservations Centre and provide group code AAS26 or your confirmation number. Additional nights are subject to availability and hotel approval.

### Hotel Reservations

Hotel reservation information and the conference booking link are available on the conference website: [Conference hotel information](#)

### General Travel Note

Attendees should confirm their travel plans, lodging dates, and transportation arrangements directly with the relevant providers. Hotel policies and room availability are controlled by the Hilton Whistler Resort & Spa.

## Social and Special Events

| Date             | Time              | Event                                                                | Room      |
|------------------|-------------------|----------------------------------------------------------------------|-----------|
| Sunday, July 26  | 6:00 PM - 9:00 PM | Welcome Reception                                                    | Courtyard |
| Monday, July 27  | 6:00 PM - 7:00 PM | Evening Reception                                                    | Courtyard |
| Monday, July 27  | 7:00 PM - 9:00 PM | Awards Ceremony and Dirk Brouwer Plenary Lecture by David A. Vallado | Mt Currie |
| Tuesday, July 28 | 6:00 PM - 8:00 PM | Banquet Dinner                                                       | Mt Currie |

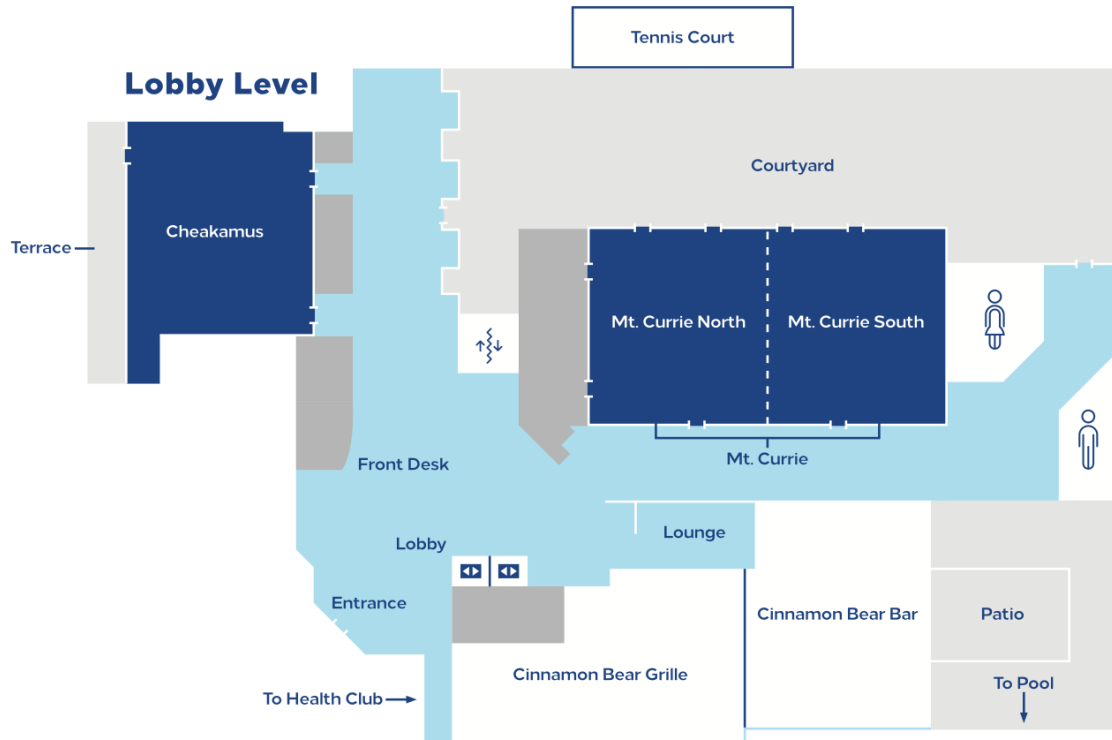
## Conference Room Guide

Technical sessions and conference events are scheduled in the following rooms. Room assignments are subject to change; consult the online program for the latest information.

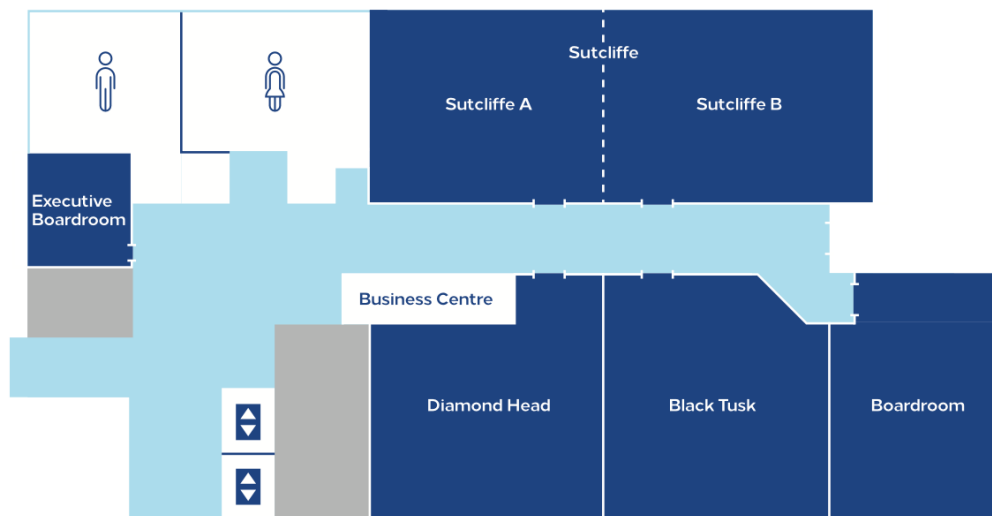
|                        |                                                                     |
|------------------------|---------------------------------------------------------------------|
| <b>Mt Currie North</b> | Oral technical sessions                                             |
| <b>Mt Currie South</b> | Oral technical sessions                                             |
| <b>Mt Currie</b>       | Poster session, awards ceremony and Brouwer Lecture, banquet dinner |
| <b>Sutcliffe A</b>     | Oral and special technical sessions                                 |
| <b>Sutcliffe B</b>     | Oral technical sessions                                             |
| <b>Mt Currie Foyer</b> | Scheduled breaks                                                    |
| <b>Cheakamus</b>       | Committee lunches                                                   |
| <b>Diamond Head</b>    | AIAA Committee Lunch                                                |
| <b>Courtyard</b>       | Welcome and evening receptions                                      |
| <b>Lobby</b>           | Registration                                                        |

## FLOOR MAP KEY

- Meeting/Conference Rooms
- Amenities
- Public Space
- Private



### Lower Level



# Schedule of Events

*Room locations and program details are subject to change; please refer to the online program for the latest updates.*

| Date    | Start    | End      | Event                                                                               | Room            | Papers                                  |
|---------|----------|----------|-------------------------------------------------------------------------------------|-----------------|-----------------------------------------|
| 7/26/26 | 04:00 PM | 06:30 PM | Registration                                                                        | Lobby           |                                         |
| 7/26/26 | 06:00 PM | 09:00 PM | Welcome Reception                                                                   | Courtyard       |                                         |
| 7/27/26 | 08:00 AM | 12:00 PM | Registration                                                                        | Lobby           |                                         |
| 7/27/26 | 08:00 AM | 10:00 AM | Cislunar Astrodynamics I                                                            | Sutcliffe A     | 910, 697, 735, 621, 765, 654, 1000, 789 |
| 7/27/26 | 08:00 AM | 10:00 AM | Orbit Determination and Estimation I                                                | Mt Currie South | 665, 935, 1040, 820, 942, 933, 625, 661 |
| 7/27/26 | 08:00 AM | 10:00 AM | Spacecraft Guidance, Navigation and Control (GNC) I                                 | Sutcliffe B     | 973, 663, 909, 784, 888, 836            |
| 7/27/26 | 08:00 AM | 10:00 AM | Trajectory Design and Optimization I                                                | Mt Currie North | 895, 716, 688, 912, 659, 737, 684, 657  |
| 7/27/26 | 10:00 AM | 10:30 AM | Break                                                                               | Mt Currie Foyer |                                         |
| 7/27/26 | 10:30 AM | 12:00 PM | Machine Learning and Artificial Intelligence Applied to Spaceflight I               | Mt Currie South | 830, 854, 917, 633, 710                 |
| 7/27/26 | 10:30 AM | 12:00 PM | Rendezvous, Relative Motion, and Proximity Operations I                             | Sutcliffe A     | 819, 788, 1004, 682, 632                |
| 7/27/26 | 10:30 AM | 12:00 PM | Space Domain Awareness (SDA) and Space Surveillance I                               | Sutcliffe B     | 945, 840, 724, 839, 969                 |
| 7/27/26 | 10:30 AM | 12:00 PM | Trajectory Design and Optimization II                                               | Mt Currie North | 619, 709, 648, 683, 994                 |
| 7/27/26 | 12:00 PM | 01:15 PM | Lunch                                                                               |                 |                                         |
| 7/27/26 | 12:00 PM | 01:15 PM | AAS/AIAA Committee Lunch                                                            | Cheakamus       |                                         |
| 7/27/26 | 01:15 PM | 05:00 PM | Registration                                                                        | Lobby           |                                         |
| 7/27/26 | 01:15 PM | 03:00 PM | Dynamical Systems Theory Applied to Spaceflight Problems I                          | Sutcliffe B     | 791, 725, 990, 743, 686, 851, 880       |
| 7/27/26 | 01:15 PM | 03:00 PM | Machine Learning and Artificial Intelligence Applied to Spaceflight II              | Mt Currie South | 1009, 772, 815, 947, 999, 847           |
| 7/27/26 | 01:15 PM | 03:00 PM | Space Situational Awareness, Conjunction Analysis, and Collision Avoidance I        | Sutcliffe A     | 708, 799, 860, 620, 826, 700, 631       |
| 7/27/26 | 01:15 PM | 03:00 PM | Trajectory Design and Optimization III                                              | Mt Currie North | 614, 656, 729, 967, 738, 859            |
| 7/27/26 | 03:00 PM | 03:30 PM | Break                                                                               | Mt Currie Foyer |                                         |
| 7/27/26 | 03:30 PM | 05:00 PM | Attitude Dynamics, Determination and Control                                        | Sutcliffe B     | 868, 609, 639, 773, 921                 |
| 7/27/26 | 03:30 PM | 05:00 PM | Orbital Debris and Space Environment I                                              | Mt Currie South | 946, 949, 829, 938, 721, 993            |
| 7/27/26 | 03:30 PM | 05:00 PM | Satellite Constellations and Formations I                                           | Sutcliffe A     | 964, 754, 747, 617, 981, 904            |
| 7/27/26 | 03:30 PM | 05:00 PM | Special Session Panel: Extended Reality (XR) and Spatial Computing in Astrodynamics | Mt Currie North | 678, 758, 879, 952, 974                 |
| 7/27/26 | 06:00 PM | 07:00 PM | Evening Reception                                                                   | Courtyard       |                                         |
| 7/27/26 | 07:00 PM | 09:00 PM | Awards Ceremony and Brouwer Lecture                                                 | Mt Currie       |                                         |
| 7/28/26 | 08:00 AM | 12:00 PM | Registration                                                                        | Lobby           |                                         |
| 7/28/26 | 08:00 AM | 10:00 AM | Cislunar Astrodynamics II                                                           | Mt Currie North | 1008, 837, 718, 797, 755, 704, 828, 978 |
| 7/28/26 | 08:00 AM | 10:00 AM | Orbit Determination and Estimation II                                               | Sutcliffe B     | 601, 980, 861, 640, 835, 1046, 634      |
| 7/28/26 | 08:00 AM | 10:00 AM | Spacecraft Guidance, Navigation and Control (GNC) II                                | Mt Currie South | 767, 782, 893, 687, 761, 948, 987       |
| 7/28/26 | 08:00 AM | 10:00 AM | Trajectory Design and Optimization IV                                               | Sutcliffe A     | 958, 1030, 1045, 928, 762, 911          |
| 7/28/26 | 10:00 AM | 10:30 AM | Break                                                                               | Mt Currie Foyer |                                         |
| 7/28/26 | 10:30 AM | 12:00 PM | Machine Learning and Artificial Intelligence Applied to Spaceflight III             | Mt Currie South | 883, 896, 647, 862, 675, 1022           |
| 7/28/26 | 10:30 AM | 12:00 PM | Rendezvous, Relative Motion, and Proximity Operations II                            | Sutcliffe A     | 673, 691, 1013, 905, 808, 746           |
| 7/28/26 | 10:30 AM | 12:00 PM | Space Domain Awareness (SDA) and Space Surveillance II                              | Sutcliffe B     | 944, 702, 919, 950, 834, 812            |
| 7/28/26 | 10:30 AM | 12:00 PM | Space Situational Awareness, Conjunction Analysis, and Collision Avoidance II       | Mt Currie North | 961, 698, 615, 745, 849, 818            |
| 7/28/26 | 12:00 PM | 01:15 PM | Lunch                                                                               |                 |                                         |
| 7/28/26 | 12:00 PM | 01:15 PM | AAS Committee Lunch                                                                 | Cheakamus       |                                         |
| 7/28/26 | 12:00 PM | 01:15 PM | AIAA Committee Lunch                                                                | Diamond Head    |                                         |
| 7/28/26 | 01:15 PM | 05:00 PM | Registration                                                                        | Lobby           |                                         |

| Date    | Start    | End      | Event                                                                              | Room            | Papers                                                                                                                  |
|---------|----------|----------|------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------|
| 7/28/26 | 01:15 PM | 03:00 PM | Cislunar Astrodynamics III                                                         | Mt Currie North | 810, 726, 877, 757, 975, 843, 890                                                                                       |
| 7/28/26 | 01:15 PM | 03:00 PM | Dynamical Systems Theory Applied to Spaceflight Problems II                        | Sutcliffe B     | 770, 878, 730, 955, 624, 622, 766                                                                                       |
| 7/28/26 | 01:15 PM | 03:00 PM | Machine Learning and Artificial Intelligence Applied to Spaceflight IV             | Mt Currie South | 769, 956, 931, 875, 918, 707, 1049                                                                                      |
| 7/28/26 | 01:15 PM | 03:00 PM | Trajectory Design and Optimization V                                               | Sutcliffe A     | 937, 925, 636, 1015, 763, 920                                                                                           |
| 7/28/26 | 03:00 PM | 03:30 PM | Break                                                                              | Mt Currie Foyer |                                                                                                                         |
| 7/28/26 | 03:30 PM | 05:00 PM | Asteroid and Interplanetary Mission Design                                         | Sutcliffe B     | 627, 689, 882, 966, 968                                                                                                 |
| 7/28/26 | 03:30 PM | 05:00 PM | Poster Session                                                                     | Mt Currie       | 602, 644, 658, 674, 720, 732, 736, 740, 742, 841, 887, 903, 914, 930, 972, 979, 983, 1003, 1021, 1027, 1032, 1048, 1052 |
| 7/28/26 | 03:30 PM | 05:00 PM | Satellite Constellations and Formations II                                         | Sutcliffe A     | 1014, 1053, 977, 612, 733                                                                                               |
| 7/28/26 | 06:00 PM | 08:00 PM | Banquet Dinner                                                                     | Mt Currie       |                                                                                                                         |
| 7/29/26 | 08:00 AM | 12:00 PM | Registration                                                                       | Lobby           |                                                                                                                         |
| 7/29/26 | 08:00 AM | 10:00 AM | Cislunar Astrodynamics IV                                                          | Sutcliffe A     | 939, 1006, 900, 976, 694, 774, 751, 853                                                                                 |
| 7/29/26 | 08:00 AM | 10:00 AM | Orbit Determination and Estimation III                                             | Mt Currie South | 613, 982, 806, 699, 960, 666, 672, 752                                                                                  |
| 7/29/26 | 08:00 AM | 10:00 AM | Spacecraft Guidance, Navigation and Control (GNC) III                              | Sutcliffe B     | 870, 963, 713, 867, 1002, 825, 764, 1010                                                                                |
| 7/29/26 | 08:00 AM | 10:00 AM | Trajectory Design and Optimization VI                                              | Mt Currie North | 645, 811, 971, 794, 679, 929, 706                                                                                       |
| 7/29/26 | 10:00 AM | 10:30 AM | Break                                                                              | Mt Currie Foyer |                                                                                                                         |
| 7/29/26 | 10:30 AM | 12:00 PM | Earth Orbital and Planetary Mission Studies                                        | Sutcliffe A     | 831, 866, 965, 771, 671                                                                                                 |
| 7/29/26 | 10:30 AM | 12:00 PM | Orbital Debris and Space Environment II                                            | Mt Currie South | 846, 650, 803, 995, 817                                                                                                 |
| 7/29/26 | 10:30 AM | 12:00 PM | Orbital Dynamics, Perturbations, and Stability                                     | Sutcliffe B     | 664, 668, 701, 744, 902, 1023                                                                                           |
| 7/29/26 | 10:30 AM | 12:00 PM | Trajectory Design and Optimization VII                                             | Mt Currie North | 876, 916, 899, 970, 898, 865                                                                                            |
| 7/29/26 | 12:00 PM | 01:15 PM | Lunch                                                                              |                 |                                                                                                                         |
| 7/29/26 | 01:15 PM | 05:00 PM | Registration                                                                       | Lobby           |                                                                                                                         |
| 7/29/26 | 01:15 PM | 03:00 PM | Dynamical Systems Theory Applied to Spaceflight Problems III                       | Sutcliffe B     | 852, 874, 802, 941, 778, 796, 692                                                                                       |
| 7/29/26 | 01:15 PM | 03:00 PM | Machine Learning and Artificial Intelligence Applied to Spaceflight V              | Mt Currie South | 776, 962, 885, 790, 777, 719                                                                                            |
| 7/29/26 | 01:15 PM | 03:00 PM | Space Situational Awareness, Conjunction Analysis, and Collision Avoidance III     | Sutcliffe A     | 779, 717, 881, 696, 871, 872, 959                                                                                       |
| 7/29/26 | 01:15 PM | 03:00 PM | Trajectory Design and Optimization VIII                                            | Mt Currie North | 635, 805, 1012, 768, 649, 850, 924                                                                                      |
| 7/29/26 | 03:00 PM | 03:30 PM | Break                                                                              | Mt Currie Foyer |                                                                                                                         |
| 7/29/26 | 03:30 PM | 05:00 PM | In-space Assembly, Manufacturing, and Space Robotics                               | Sutcliffe B     | 749, 693, 723, 886, 892                                                                                                 |
| 7/29/26 | 03:30 PM | 05:00 PM | Orbital Debris and Space Environment III                                           | Mt Currie South | 901, 857, 838, 821, 891, 775                                                                                            |
| 7/29/26 | 03:30 PM | 04:15 PM | Special Session: Emirates Mission to the Asteroid Belt (EMA)                       | Sutcliffe A     | 630, 1033, 1039                                                                                                         |
| 7/29/26 | 03:30 PM | 05:00 PM | Trajectory Design and Optimization IX                                              | Mt Currie North | 669, 813, 759, 785, 894, 801                                                                                            |
| 7/29/26 | 04:15 PM | 05:00 PM | Special Session: Space Weather Observations at L1 to Advance Readiness-1 (SOLAR-1) | Sutcliffe A     | 695, 651, 643                                                                                                           |
| 7/30/26 | 08:00 AM | 12:00 PM | Registration                                                                       | Lobby           |                                                                                                                         |
| 7/30/26 | 08:00 AM | 10:00 AM | Cislunar Astrodynamics V                                                           | Mt Currie North | 998, 936, 1029, 1005, 943, 667                                                                                          |
| 7/30/26 | 08:00 AM | 10:00 AM | Orbit Determination and Estimation IV                                              | Sutcliffe B     | 611, 618, 833, 748, 848, 705, 685, 986                                                                                  |
| 7/30/26 | 08:00 AM | 10:00 AM | Spacecraft Guidance, Navigation and Control (GNC) IV                               | Mt Currie South | 1018, 842, 863, 1038, 677, 845, 670                                                                                     |
| 7/30/26 | 08:00 AM | 10:00 AM | Trajectory Design and Optimization X                                               | Sutcliffe A     | 907, 653, 926, 792, 816, 793, 889                                                                                       |
| 7/30/26 | 10:00 AM | 10:30 AM | Break                                                                              | Mt Currie Foyer |                                                                                                                         |
| 7/30/26 | 10:30 AM | 12:00 PM | Cislunar Astrodynamics VI                                                          | Mt Currie North | 628, 690, 714, 807, 927, 750                                                                                            |
| 7/30/26 | 10:30 AM | 12:00 PM | Dynamical Systems Theory Applied to Spaceflight Problems IV                        | Sutcliffe B     | 795, 809, 932, 1042, 997                                                                                                |
| 7/30/26 | 10:30 AM | 12:00 PM | Rendezvous, Relative Motion, and Proximity Operations III                          | Sutcliffe A     | 756, 864, 741, 606, 844                                                                                                 |
| 7/30/26 | 10:30 AM | 12:00 PM | Spacecraft Guidance, Navigation and Control (GNC) V                                | Mt Currie South | 660, 1007, 638, 703, 783, 897                                                                                           |

## **Additional Technical Information**

### **Author Presentations**

Presentation files should be submitted through the conference web-based system in PowerPoint or PDF format. Each oral presentation is allocated a 15-minute time slot: approximately 12 minutes for the presentation and 3 minutes for questions, answers, and transition between speakers.

Presenters should coordinate with their Session Chairs regarding available computing equipment, software, and media requirements. Authors are encouraged to be in the session room 15-30 minutes before the session begins to confirm that the presentation appears correctly. Session Chairs shall maintain the posted schedule so attendees can move between parallel sessions.

### **No-Paper, No-Podium Policy**

Completed manuscripts must be electronically uploaded to the submission site before the conference, must conform to the AAS conference paper format, and must not exceed 20 pages. If a completed manuscript is not submitted on time, the presentation will be forfeited. If a presentation is not delivered by an author or designated presenter, the manuscript will be withdrawn from the published proceedings.

Authors are responsible for ensuring that papers and presentations have been cleared for public release and satisfy all applicable organizational and export-control requirements.

### **Preprint Manuscripts**

Physical copies of preprint manuscripts are not provided. Electronic preprints are made available through the conference system for registered attendees. Attendees who want paper copies should download and print the desired manuscripts before arriving at the conference.

### **Poster Presentations**

Poster presenters showcase and discuss their work throughout the full poster-session period. Individual poster presentation times are therefore not assigned in the detailed schedule.

### **Subsequent Journal Publication**

Conference proceedings are not considered an archival journal publication. Authors are encouraged to submit expanded manuscripts after the meeting to an appropriate peer-reviewed journal, including the Journal of the Astronautical Sciences, the Journal of Guidance, Control, and Dynamics, or the Journal of Spacecraft and Rockets.

### **Committee Meetings**

Committee meeting seating may be limited to committee members and invited guests. Committee lunches will be held according to the Schedule of Events.

# Daily Session Decision Grids

Sessions in the same row occur concurrently. Use these pages to compare rooms and session topics before reviewing the individual presentations.

## Monday, July 27, 2026

### 08:00 AM - 10:00 AM

|                                                                |                                                                |                                                |                                                                           |
|----------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------|
| <b>Mt Currie North</b><br>Trajectory Design and Optimization I | <b>Mt Currie South</b><br>Orbit Determination and Estimation I | <b>Sutcliffe A</b><br>Cislunar Astrodynamics I | <b>Sutcliffe B</b><br>Spacecraft Guidance, Navigation and Control (GNC) I |
|----------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------|

### 10:30 AM - 12:00 PM

|                                                                 |                                                                                                 |                                                                               |                                                                             |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| <b>Mt Currie North</b><br>Trajectory Design and Optimization II | <b>Mt Currie South</b><br>Machine Learning and Artificial Intelligence Applied to Spaceflight I | <b>Sutcliffe A</b><br>Rendezvous, Relative Motion, and Proximity Operations I | <b>Sutcliffe B</b><br>Space Domain Awareness (SDA) and Space Surveillance I |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|

### 01:15 PM - 03:00 PM

|                                                                  |                                                                                                  |                                                                                                    |                                                                                  |
|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| <b>Mt Currie North</b><br>Trajectory Design and Optimization III | <b>Mt Currie South</b><br>Machine Learning and Artificial Intelligence Applied to Spaceflight II | <b>Sutcliffe A</b><br>Space Situational Awareness, Conjunction Analysis, and Collision Avoidance I | <b>Sutcliffe B</b><br>Dynamical Systems Theory Applied to Spaceflight Problems I |
|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|

### 03:30 PM - 05:00 PM

|                                                                                                               |                                                                  |                                                                 |                                                                    |
|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------|
| <b>Mt Currie North</b><br>Special Session Panel: Extended Reality (XR) and Spatial Computing in Astrodynamics | <b>Mt Currie South</b><br>Orbital Debris and Space Environment I | <b>Sutcliffe A</b><br>Satellite Constellations and Formations I | <b>Sutcliffe B</b><br>Attitude Dynamics, Determination and Control |
|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------|

## Tuesday, July 28, 2026

### 08:00 AM - 10:00 AM

|                                                     |                                                                                |                                                             |                                                             |
|-----------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
| <b>Mt Currie North</b><br>Cislunar Astrodynamics II | <b>Mt Currie South</b><br>Spacecraft Guidance, Navigation and Control (GNC) II | <b>Sutcliffe A</b><br>Trajectory Design and Optimization IV | <b>Sutcliffe B</b><br>Orbit Determination and Estimation II |
|-----------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|

### 10:30 AM - 12:00 PM

|                                                                                                         |                                                                                                   |                                                                                |                                                                              |
|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| <b>Mt Currie North</b><br>Space Situational Awareness, Conjunction Analysis, and Collision Avoidance II | <b>Mt Currie South</b><br>Machine Learning and Artificial Intelligence Applied to Spaceflight III | <b>Sutcliffe A</b><br>Rendezvous, Relative Motion, and Proximity Operations II | <b>Sutcliffe B</b><br>Space Domain Awareness (SDA) and Space Surveillance II |
|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------|

### 01:15 PM - 03:00 PM

|                                                      |                                                                                                  |                                                            |                                                                                   |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>Mt Currie North</b><br>Cislunar Astrodynamics III | <b>Mt Currie South</b><br>Machine Learning and Artificial Intelligence Applied to Spaceflight IV | <b>Sutcliffe A</b><br>Trajectory Design and Optimization V | <b>Sutcliffe B</b><br>Dynamical Systems Theory Applied to Spaceflight Problems II |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------------------|

### 03:30 PM - 05:00 PM

|                                    |                                                                  |                                                                  |  |
|------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|--|
| <b>Mt Currie</b><br>Poster Session | <b>Sutcliffe A</b><br>Satellite Constellations and Formations II | <b>Sutcliffe B</b><br>Asteroid and Interplanetary Mission Design |  |
|------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|--|

## Wednesday, July 29, 2026

### 08:00 AM - 10:00 AM

|                                                                 |                                                                  |                                                 |                                                                             |
|-----------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------|
| <i>Mt Currie North</i><br>Trajectory Design and Optimization VI | <i>Mt Currie South</i><br>Orbit Determination and Estimation III | <i>Sutcliffe A</i><br>Cislunar Astrodynamics IV | <i>Sutcliffe B</i><br>Spacecraft Guidance, Navigation and Control (GNC) III |
|-----------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------|

### 10:30 AM - 12:00 PM

|                                                                  |                                                                   |                                                                   |                                                                      |
|------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------|
| <i>Mt Currie North</i><br>Trajectory Design and Optimization VII | <i>Mt Currie South</i><br>Orbital Debris and Space Environment II | <i>Sutcliffe A</i><br>Earth Orbital and Planetary Mission Studies | <i>Sutcliffe B</i><br>Orbital Dynamics, Perturbations, and Stability |
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### 01:15 PM - 03:00 PM

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|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <i>Mt Currie North</i><br>Trajectory Design and Optimization VIII | <i>Mt Currie South</i><br>Machine Learning and Artificial Intelligence Applied to Spaceflight V | <i>Sutcliffe A</i><br>Space Situational Awareness, Conjunction Analysis, and Collision Avoidance III | <i>Sutcliffe B</i><br>Dynamical Systems Theory Applied to Spaceflight Problems III |
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### 03:30 PM - 04:15 PM

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| <i>Sutcliffe A</i><br>Special Session: Emirates Mission to the Asteroid Belt (EMA) |  |  |  |
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### 03:30 PM - 05:00 PM

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|-----------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------|--|
| <i>Mt Currie North</i><br>Trajectory Design and Optimization IX | <i>Mt Currie South</i><br>Orbital Debris and Space Environment III | <i>Sutcliffe B</i><br>In-space Assembly, Manufacturing, and Space Robotics |  |
|-----------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------|--|

### 04:15 PM - 05:00 PM

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| <i>Sutcliffe A</i><br>Special Session: Space Weather Observations at L1 to Advance Readiness-1 (SOLAR-1) |  |  |  |
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## Thursday, July 30, 2026

### 08:00 AM - 10:00 AM

|                                                    |                                                                                |                                                            |                                                             |
|----------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------|
| <i>Mt Currie North</i><br>Cislunar Astrodynamics V | <i>Mt Currie South</i><br>Spacecraft Guidance, Navigation and Control (GNC) IV | <i>Sutcliffe A</i><br>Trajectory Design and Optimization X | <i>Sutcliffe B</i><br>Orbit Determination and Estimation IV |
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### 10:30 AM - 12:00 PM

|                                                     |                                                                               |                                                                                 |                                                                                   |
|-----------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <i>Mt Currie North</i><br>Cislunar Astrodynamics VI | <i>Mt Currie South</i><br>Spacecraft Guidance, Navigation and Control (GNC) V | <i>Sutcliffe A</i><br>Rendezvous, Relative Motion, and Proximity Operations III | <i>Sutcliffe B</i><br>Dynamical Systems Theory Applied to Spaceflight Problems IV |
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# Conference Technical Presentation Schedule

*Room locations are subject to change; please refer to the online program for the latest updates.*

## Monday, July 27, 2026

### Trajectory Design and Optimization I

08:00 AM - 10:00 AM | Session Chair(s): Natasha Bosanac - Session Chairs | Room: Mt Currie North

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|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 08:00 AM<br>08:15 AM | <b>Low-thrust Trajectory Optimization for the Circular Restricted Three-Body Problem via Lyapunov Control Initialization</b><br>Paper 895   Harshul Sharma; University of Toronto Institute for Aerospace Studies | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:15 AM<br>08:30 AM | <b>Genetic algorithm-based design of periodic orbits in the Circular Restricted Three-Body Problem.</b><br>Paper 716   Lucía Osorio Fernández; GMV                                                                | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:30 AM<br>08:45 AM | <b>Ballistic Cycler Trajectory between EML2 and SEL2 in the Bicircular Restricted Four-Body Problem</b><br>Paper 688   Saki Komachi; Australian National University                                               | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:45 AM<br>09:00 AM | <b>Customized First-Order Method for Low-Thrust Trajectory Optimization using Convex Programming</b><br>Paper 912   Gonçalo Pinho; Politecnico di Milano                                                          | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:00 AM<br>09:15 AM | <b>Physics-Guided Reachable-Set Learning for Low-Thrust Trajectory Optimization between Main-Belt Asteroids</b><br>Paper 659   Zhiwei Zhou; University of Auckland                                                | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:15 AM<br>09:30 AM | <b>A Collocation-Based Architecture for Low-Thrust Trajectory Design Within STK Astrogator</b><br>Paper 737   Christopher Spreen; AGI                                                                             | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:30 AM<br>09:45 AM | <b>Improvements to A Priori Q-law Cost Estimation for Low-Thrust Trajectory Design</b><br>Paper 684   Mingde Yin; University of Toronto Institute for Aerospace Studies                                           | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:45 AM<br>10:00 AM | <b>Mission Design Considerations for a Low-Thrust Spacecraft</b><br>Paper 657   Scott Kam; NASA Glenn Research Center                                                                                             | <input type="checkbox"/> : Attend<br>☆: Priority |

### Orbit Determination and Estimation I

08:00 AM - 10:00 AM | Session Chair(s): Simone Servadio - Session Chairs | Room: Mt Currie South

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|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 08:00 AM<br>08:15 AM | <b>Effects of Observation Frequency on Space-Based Optical Orbit Determination for a Near-Rectilinear Halo Orbit</b><br>Paper 665   Ethan Rogers; Texas A&M University                                  | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:15 AM<br>08:30 AM | <b>Extension of the GTDS Space-Based-Visible Observation Model</b><br>Paper 935   Paul J. Cefola; University at Buffalo (SUNY)                                                                          | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:30 AM<br>08:45 AM | <b>Cislunar space-based simultaneous orbit determination for multiple observers and multiple targets</b><br>Paper 1040   Ovijit Bhattacharjee; University of Central Florida                            | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:45 AM<br>09:00 AM | <b>Interacting Multiple Model Filtering for Orbit Determination under Time-Varying Thermospheric Density Uncertainty</b><br>Paper 820   Roman Krückel; Institute of Navigation, University of Stuttgart | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:00 AM<br>09:15 AM | <b>REFINING GLSDC FOR ORBIT DETERMINATION</b><br>Paper 942   FNU Abhijeet; Texas A&M University                                                                                                         | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:15 AM<br>09:30 AM | <b>Deep-Space Initial Orbit Determination from Angles-Only Measurements Without Prior Attitude or Distance Information</b><br>Paper 933   Simone Servadio; Iowa State University                        | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:30 AM<br>09:45 AM | <b>Cislunar Gauss Initial Orbit Determination for Short-arc Angles-only Observations</b><br>Paper 625   Woosang Park; Texas A&M University                                                              | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:45 AM<br>10:00 AM | <b>A Generalized Herrick-Gibbs Method for Cislunar Initial Orbit Determination</b><br>Paper 661   Evan Hefflin; Texas A&M University                                                                    | <input type="checkbox"/> : Attend<br>☆: Priority |

### Cislunar Astrodynamics I

08:00 AM - 10:00 AM | Session Chair(s): Amanda Marx - Session Chairs | Room: Sutcliffe A

|                      |                                                                                                                                                                          |                                                  |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 08:00 AM<br>08:15 AM | <b>Trajectory Design Strategies Leveraging Third-body Effects to Access Lunar Orbits for Artemis Surface Missions</b><br>Paper 910   Brian McCarthy; a.i. solutions, Inc | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:15 AM<br>08:30 AM | <b>Lunar Sunrise Orbits Applied to NASA CLPS Missions</b><br>Paper 697   Anthony Genova; NASA                                                                            | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:30 AM<br>08:45 AM | <b>Sun-Synchronous Elliptic Lunar Frozen Orbits</b><br>Paper 735   Patrick Kelly; The Aerospace Corporation                                                              | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:45 AM<br>09:00 AM | <b>Sun-Synchronous Orbits at the Moon</b><br>Paper 621   Carter Van Hammond; AFIT                                                                                        | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:00 AM<br>09:15 AM | <b>Periodic Orbits Bridging Multiple Dynamical Realms in the Earth-Moon CRTBP</b><br>Paper 765   Mahiro Arimoto; Kyushu University                                       | <input type="checkbox"/> : Attend<br>☆: Priority |

## Cislunar Astrodynamics I

08:00 AM - 10:00 AM | Session Chair(s): Amanda Marx - Session Chairs | Room: Sutcliffe A

|                      |                                                                                                                                                                               |                                                  |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 09:15 AM<br>09:30 AM | <b>Leveraging Quasi-Periodic Orbits to Assess Orbit Family Bifurcations within Intermediary-Fidelity Models</b><br>Paper 654   Jay Singh; Purdue University                   | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:30 AM<br>09:45 AM | <b>Using Hamiltonian Normal Forms for Finite-Horizon Station-keeping of Libration Point Trajectories</b><br>Paper 1000   Carson Hunsberger; The Pennsylvania State University | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:45 AM<br>10:00 AM | <b>Stationkeeping strategies leveraging quasi-periodic four body models</b><br>Paper 789   Rohith Reddy Sanaga; Embry-Riddle Aeronautical University                          | <input type="checkbox"/> : Attend<br>☆: Priority |

## Spacecraft Guidance, Navigation and Control (GNC) I

08:00 AM - 10:00 AM | Session Chair(s): Jay McMahon - Session Chairs | Room: Sutcliffe B

|                      |                                                                                                                                                                        |                                                  |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 08:00 AM<br>08:15 AM | <b>Closed-Loop Nonlinear Covariance Analysis for GNC Applications</b><br>Paper 973   Quinn Moon; University of Texas                                                   | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:15 AM<br>08:30 AM | <b>Pareto Slope of Dual-Objective Linear Quadratic Regulation</b><br>Paper 663   Andrew J. Sinclair; Air Force Office of Scientific Research                           | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:30 AM<br>08:45 AM | <b>Analytical Confidence Boundaries for Non-Gaussian Uncertainty in Perturbed Spacecraft Dynamics</b><br>Paper 909   Niccolò Michelotti; Politecnico di Milano         | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:45 AM<br>09:00 AM | <b>An Efficient Formulation of Gaussian Particle Flow Filters</b><br>Paper 784   Andrea Rigato; The University of Texas at Austin                                      | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:00 AM<br>09:15 AM | <b>Geometric Particle Filtering on SE(3) and Its Tangent Bundle TSE(3)</b><br>Paper 888   Herman Gunter; Embry-Riddle Aeronautical University                          | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:15 AM<br>09:30 AM | <b>Robust aperiodic drag-based orbit control against atmospheric uncertainties using variable step time delay control</b><br>Paper 836   Yonsoo Kim; Yonsei University | <input type="checkbox"/> : Attend<br>☆: Priority |

## Trajectory Design and Optimization II

10:30 AM - 12:00 PM | Session Chair(s): Ossama Abdelkhalik - Session Chairs | Room: Mt Currie North

|                      |                                                                                                                                                                                          |                                                  |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 10:30 AM<br>10:45 AM | <b>Simplified Earth Entry Interface Constraints for Artemis Abort Trajectory Construction</b><br>Paper 619   Galen Savidge; Advanced Space                                               | <input type="checkbox"/> : Attend<br>☆: Priority |
| 10:45 AM<br>11:00 AM | <b>Stochastic optimal trajectory with safe mode uncertainty modeled by an alternative renewal process</b><br>Paper 709   Masato Shibukawa; SOKENDAI                                      | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:00 AM<br>11:15 AM | <b>Ground Track Reachability for Averaged Continuous-Thrust Satellites</b><br>Paper 648   Senna Keesing; University of Colorado Boulder                                                  | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:15 AM<br>11:30 AM | <b>Elliptical-to-Hyperbolic Continuous-Thrust Feedback Guidance for Planetary Departure and Arrival</b><br>Paper 683   Mingde Yin; University of Toronto Institute for Aerospace Studies | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:30 AM<br>11:45 AM | <b>Mean to Osculating Element Transformations for Averaged Primer Vector Theory</b><br>Paper 994   Noah Lifset; University of Texas at Austin                                            | <input type="checkbox"/> : Attend<br>☆: Priority |

## Machine Learning and Artificial Intelligence Applied to Spaceflight I

10:30 AM - 12:00 PM | Session Chair(s): Brian Gunter - Session Chairs | Room: Mt Currie South

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|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 10:30 AM<br>10:45 AM | <b>Diagnosing Multi-Objective Evolutionary Optimization in Satellite Constellation Design</b><br>Paper 830   Ryan McKennon-Kelly; George Mason University / The Aerospace Corporation   | <input type="checkbox"/> : Attend<br>☆: Priority |
| 10:45 AM<br>11:00 AM | <b>Physics-Guided Diffusion for Pseudospectral Moon-to-Moon Tour Design in the CR3BP</b><br>Paper 854   Hirotaka Okada; The University of Tokyo                                         | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:00 AM<br>11:15 AM | <b>Beyond Point Features: Direct Boundary Fitting and Pose-Gradient Methods for Space Object Imaging</b><br>Paper 917   Sean Phillips; Air Force Research Laboratory                    | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:15 AM<br>11:30 AM | <b>Reinforcement Learning of Optimal Co-States for Low Thrust Minimum Time Transfers: Non-Equatorial GTO to GEO and GTO to NRHO</b><br>Paper 633   Atri Dutta; Wichita State University | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:30 AM<br>11:45 AM | <b>HEnccke_SGP4: a hybrid Encke-type propagator based on SGP4</b><br>Paper 710   Juan Félix San-Juan; University of La Rioja                                                            | <input type="checkbox"/> : Attend<br>☆: Priority |

## Rendezvous, Relative Motion, and Proximity Operations I

10:30 AM - 12:00 PM | Session Chair(s): Shaun Stewart - Session Chairs | Room: Sutcliffe A

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|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 10:30 AM<br>10:45 AM | <b>Cooperative Large Space Debris Removal Missions Using Multiple Aero-Assisted Spacecraft</b><br>Paper 819   Kenichi Sugimori; Kyushu University / Mitsubishi Electric Corporation | <input type="checkbox"/> : Attend<br>☆: Priority |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|

## Rendezvous, Relative Motion, and Proximity Operations I

10:30 AM - 12:00 PM | Session Chair(s): Shaun Stewart - Session Chairs | Room: Sutcliffe A

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|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 10:45 AM<br>11:00 AM | <b>Predictive Guidance for Noncooperative Rendezvous Using Onboard Differential Drag Estimation and Forecasting</b><br>Paper 788   Takahiro Sasaki; Japan Aerospace Exploration Agency                  | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:00 AM<br>11:15 AM | <b>Rotation-Minimizing Tidal-Impedance Relative Dynamics for Satellite Deployment During Lunar Swing-By</b><br>Paper 1004   Harish Vernekar; University of Arizona                                      | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:15 AM<br>11:30 AM | <b>Information-Aware MPC for Satellite Inspection</b><br>Paper 682   Sarah Clees; University of Florida                                                                                                 | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:30 AM<br>11:45 AM | <b>Discriminating GNSS Measurement Anomalies via Dual-estimator Consistency Metrics in Autonomous Spacecraft</b><br>Paper 632   Mehmet Umut Türker; University of Calgary/Istanbul Technical University | <input type="checkbox"/> : Attend<br>☆: Priority |

## Space Domain Awareness (SDA) and Space Surveillance I

10:30 AM - 12:00 PM | Session Chair(s): Brandon Jones - Session Chairs | Room: Sutcliffe B

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|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 10:30 AM<br>10:45 AM | <b>Classification of Cislunar Objects Using a Stochastic Admissible Regions Framework</b><br>Paper 945   Sasidhar Devabhaktuni; Pennsylvania State University              | <input type="checkbox"/> : Attend<br>☆: Priority |
| 10:45 AM<br>11:00 AM | <b>Parameter Flow Filtering for Cislunar State Estimation using the Modified Generalized Equinoctial Orbital Elements</b><br>Paper 840   Maaninee Gupta; Purdue University | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:00 AM<br>11:15 AM | <b>Simultaneous Shape and Attitude Characterization for Space Debris with Laser Ranging and Light Curves</b><br>Paper 724   Liam Robinson; Purdue University               | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:15 AM<br>11:30 AM | <b>Gaussian Splatting Based Guidance Strategy for Shape Reconstruction of Unknown Space Objects</b><br>Paper 839   Sidharth Anantha; Stanford University                   | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:30 AM<br>11:45 AM | <b>Uncertainty Propagation with Complex-Step State Transition Tensors for Perturbed Orbital Dynamics</b><br>Paper 969   Koya Yamamoto; Texas A&M University                | <input type="checkbox"/> : Attend<br>☆: Priority |

## Trajectory Design and Optimization III

01:15 PM - 03:00 PM | Session Chair(s): Rohan Sood - Session Chairs | Room: Mt Currie North

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|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 01:15 PM<br>01:30 PM | <b>Design of Ascents into Frozen, Sun-Synchronous Orbits for Low-Earth Orbit Missions</b><br>Paper 614   Varoon Sharma; a.i. solutions                         | <input type="checkbox"/> : Attend<br>☆: Priority |
| 01:30 PM<br>01:45 PM | <b>Uncertainty-Aware Aerodynamic Orbit Control in Very Low Earth Orbits</b><br>Paper 656   Fabrizio Turco; Institute of Space Systems, University of Stuttgart | <input type="checkbox"/> : Attend<br>☆: Priority |
| 01:45 PM<br>02:00 PM | <b>Modular Design of Trajectories to Sun-Earth L4</b><br>Paper 729   Gunhee Yi; Korea Advanced Institute of Science and Technology                             | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:00 PM<br>02:15 PM | <b>Sun-Earth L2 Point Nulling Interferometry Formation Flying Performance Analysis</b><br>Paper 967   Aiden Weatherbee; York University                        | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:15 PM<br>02:30 PM | <b>Elliptical Lunar Frozen Orbit Constellation Design and Analysis via Frequency Structures</b><br>Paper 738   Beom Park; Purdue University                    | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:30 PM<br>02:45 PM | <b>Diffractional Sail Orbit Control with High-Fidelity Optical Modeling</b><br>Paper 859   Andrés Gutiérrez Valdés; Purdue University                          | <input type="checkbox"/> : Attend<br>☆: Priority |

## Machine Learning and Artificial Intelligence Applied to Spaceflight II

01:15 PM - 03:00 PM | Session Chair(s): John Martin - Session Chairs | Room: Mt Currie South

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|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 01:15 PM<br>01:30 PM | <b>Reinforcement Learning-based Swarm Trajectory Planning for A Group of Inspection Spacecraft with the Presence of Orbital Perturbations</b><br>Paper 1009   Dylan Roach; University of Cincinnati | <input type="checkbox"/> : Attend<br>☆: Priority |
| 01:30 PM<br>01:45 PM | <b>A Neural Network Approach for Autonomous Minimum-Time Spacecraft Maneuvering</b><br>Paper 772   Sarah Ames; Naval Postgraduate School                                                            | <input type="checkbox"/> : Attend<br>☆: Priority |
| 01:45 PM<br>02:00 PM | <b>Deep Neural Network-Based Koopman Operator for Spacecraft Attitude Dynamics Modeling</b><br>Paper 815   Jinjun Shan; York University                                                             | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:00 PM<br>02:15 PM | <b>Structure-Preserving Deep Koopman Operator Learning of Periodic Orbits in the Earth-Moon CR3BP</b><br>Paper 947   Simon Bauer; University of Maryland                                            | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:15 PM<br>02:30 PM | <b>Developing a Structure-Preserving Hamiltonian Surrogate for Dynamics Around Irregular Bodies</b><br>Paper 999   Alec Verdi; Embry-Riddle Aeronautical University                                 | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:30 PM<br>02:45 PM | <b>A Catalog-Aware Web-Based Framework for Preliminary LEO Mission Analysis and Collision-Avoidance Decision Support</b><br>Paper 847   Davide Conte; Embry-Riddle Aeronautical University          | <input type="checkbox"/> : Attend<br>☆: Priority |

## Space Situational Awareness, Conjunction Analysis, and Collision Avoidance I

01:15 PM - 03:00 PM | Session Chair(s): Casey Heidrich - Session Chairs | Room: Sutcliffe A

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|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 01:15 PM<br>01:30 PM | <b>Computationally Efficient Optimization of Low-Thrust Collision Avoidance Maneuvers under Operational Constraints</b><br>Paper 708   Ingu Lee; KAIST                                                                             | <input type="checkbox"/> : Attend<br>☆: Priority |
| 01:30 PM<br>01:45 PM | <b>Cislunar Collision Avoidance Using Sequential Convex Optimization</b><br>Paper 799   Lorin Nugent; Purdue University                                                                                                            | <input type="checkbox"/> : Attend<br>☆: Priority |
| 01:45 PM<br>02:00 PM | <b>Semi-Decentralized Multi-Spacecraft Collision Avoidance under Communication Constraints</b><br>Paper 860   Grace Kim; Stanford University                                                                                       | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:00 PM<br>02:15 PM | <b>A Randomized Dispersion Model for Low-Earth Orbit Collision Avoidance Maneuvering Guidelines</b><br>Paper 620   Clifford Stueck; Georgia Institute of Technology                                                                | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:15 PM<br>02:30 PM | <b>Early Prediction of Satellite Collision Probability Using a Hybrid TCN-Transformer Model for a CDM-Based Conjunction Analysis Framework</b><br>Paper 826   Rabia Tüylek Tok; TUBITAK UZAY Space Technologies Research Institute | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:30 PM<br>02:45 PM | <b>Effects of Covariance Realism on Probability of Collision for Operational Missions</b><br>Paper 700   Jonathan Halpin; Omitron Inc.                                                                                             | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:45 PM<br>03:00 PM | <b>From Ground-Loop SCP to Onboard Inference: A Non-Gaussian Conjunction-Avoidance Pipeline with Transformer Imitation Learning</b><br>Paper 631   Alex Rose; MIT                                                                  | <input type="checkbox"/> : Attend<br>☆: Priority |

## Dynamical Systems Theory Applied to Spaceflight Problems I

01:15 PM - 03:00 PM | Session Chair(s): Ryne Beeson - Session Chairs | Room: Sutcliffe B

|                      |                                                                                                                                                                                                         |                                                  |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 01:15 PM<br>01:30 PM | <b>Local Orbital Elements Around Periodic Orbits</b><br>Paper 791   Luke Peterson; University of Texas at Austin                                                                                        | <input type="checkbox"/> : Attend<br>☆: Priority |
| 01:30 PM<br>01:45 PM | <b>Robustness Analysis and Design of Cislunar Transfers Using Lobe Dynamics</b><br>Paper 725   Shunta Oi; The University of Tokyo                                                                       | <input type="checkbox"/> : Attend<br>☆: Priority |
| 01:45 PM<br>02:00 PM | <b>Design of Solar Sail Transfers Between Lagrange Points in the Sun-Earth R3BP using Multiple Shooting</b><br>Paper 990   Maisa Terra; ITA                                                             | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:00 PM<br>02:15 PM | <b>Analytic Continuation for Variational Dynamics for Finite-Time Lyapunov Exponent-Based Transport Analysis in the Cislunar Region</b><br>Paper 743   Seur Gi Jo; Embry-Riddle Aeronautical University | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:15 PM<br>02:30 PM | <b>State-Transition-Tensor-Based Reachability with Nonsingular Initial State Domain Applied to the Cislunar Region</b><br>Paper 686   Isaac Lyss-Loren; Aeronautics and Astronautics, Purdue University | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:30 PM<br>02:45 PM | <b>Periodic-Orbit-Centered Integrable Coordinate Charts for Cislunar Dynamics</b><br>Paper 851   Andrew Langford; Purdue University                                                                     | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:45 PM<br>03:00 PM | <b>Many-Revolution, Low-Thrust Transfers within Periodic Orbit Families</b><br>Paper 880   Ian Down; Advanced Space                                                                                     | <input type="checkbox"/> : Attend<br>☆: Priority |

## Special Session Panel: Extended Reality (XR) and Spatial Computing in Astrodynamics

03:30 PM - 05:00 PM | Session Chair(s): Davide Guzzetti - Session Chairs; David Canales Garcia - Session Chairs | Room: Mt Currie North

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|  | <b>Augmented Reality Visualisation of Current and Future Satellite Populations</b><br>Paper 678   Ciara McGrath; University of Manchester                             | <input type="checkbox"/> : Attend<br>☆: Priority |
|  | <b>Augmented Reality-Enabled Synchronous Collaborative Mission Design in HoloAstro</b><br>Paper 758   David Dezell Turner; University of Colorado Boulder             | <input type="checkbox"/> : Attend<br>☆: Priority |
|  | <b>A Real-Time Extended Reality Framework for Interactive Analysis of Multi-Body Dynamics</b><br>Paper 879   Joseph Messner; Pennsylvania State University            | <input type="checkbox"/> : Attend<br>☆: Priority |
|  | <b>Structuring Large-Scale Optimization of Cislunar Constellations via Spatial Computing</b><br>Paper 952   Eirik Mulder; Auburn University                           | <input type="checkbox"/> : Attend<br>☆: Priority |
|  | <b>A Unified Extended Reality Framework for Space Applications and Dynamical Systems Analysis</b><br>Paper 974   Justin Schmitt; Embry-Riddle Aeronautical University | <input type="checkbox"/> : Attend<br>☆: Priority |

## Orbital Debris and Space Environment I

03:30 PM - 05:00 PM | Session Chair(s): Beom Park - Session Chairs | Room: Mt Currie South

|                      |                                                                                                                                                                 |                                                  |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 03:30 PM<br>03:45 PM | <b>Interacting Multiple Model Estimation of Multi-Material Debris During Space-Based Laser Remediation</b><br>Paper 946   Matthew Fox; West Virginia University | <input type="checkbox"/> : Attend<br>☆: Priority |
| 03:45 PM<br>04:00 PM | <b>Space-Based Laser Remediation, Estimation, and Characterization of Irregularly Shaped Debris</b><br>Paper 949   Matthew Fox; West Virginia University        | <input type="checkbox"/> : Attend<br>☆: Priority |

## Orbital Debris and Space Environment I

03:30 PM - 05:00 PM | Session Chair(s): Beom Park - Session Chairs | Room: Mt Currie South

|                      |                                                                                                                                                                                          |                                                  |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 04:00 PM<br>04:15 PM | <b>Cooperative Estimation-Guided Laser Detumbling of Tumbling Space Debris</b><br>Paper 829   Joshua Warner; West Virginia University                                                    | <input type="checkbox"/> : Attend<br>☆: Priority |
| 04:15 PM<br>04:30 PM | <b>Robust Staged Deployment Optimization of Reconfigurable Laser Constellations for Orbital Debris Remediation</b><br>Paper 938   Matthew Fox; West Virginia University                  | <input type="checkbox"/> : Attend<br>☆: Priority |
| 04:30 PM<br>04:45 PM | <b>A High-Fidelity Measurement Model for Space Debris Laser Ranging</b><br>Paper 721   Liam Robinson; Purdue University                                                                  | <input type="checkbox"/> : Attend<br>☆: Priority |
| 04:45 PM<br>05:00 PM | <b>Advanced Validation of a High-Fidelity Hybrid Symplectic Propagator for Massive Space Debris Fragmentation Analysis</b><br>Paper 993   Juan F Puerta Ibarra; Universidad de Antioquia | <input type="checkbox"/> : Attend<br>☆: Priority |

## Satellite Constellations and Formations I

03:30 PM - 05:00 PM | Session Chair(s): Emily M. Zimovan-Spreen - Session Chairs | Room: Sutcliffe A

|                      |                                                                                                                                                                                                     |                                                  |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 03:30 PM<br>03:45 PM | <b>Space-Based Solar Power Satellite Constellations in Elliptical Sun-Synchronous Orbits</b><br>Paper 964   Basel Omran; York University                                                            | <input type="checkbox"/> : Attend<br>☆: Priority |
| 03:45 PM<br>04:00 PM | <b>Designing Dense Satellite Clusters for Distributed Space-Based Datacenters</b><br>Paper 754   Jules Pénot; Massachusetts Institute of Technology                                                 | <input type="checkbox"/> : Attend<br>☆: Priority |
| 04:00 PM<br>04:15 PM | <b>Satellite Constellation Operation Analysis via Distributed Optimization Formulation</b><br>Paper 747   Hongseok Kim; The University of Texas at Austin                                           | <input type="checkbox"/> : Attend<br>☆: Priority |
| 04:15 PM<br>04:30 PM | <b>Lunar Navigation Satellite Constellation Design via Integer Programming</b><br>Paper 617   Ryusei Komatsu; Graduate University for Advanced Studies (SOKENDAI) / Georgia Institute of Technology | <input type="checkbox"/> : Attend<br>☆: Priority |
| 04:30 PM<br>04:45 PM | <b>Investigating The Effects of Cislunar Constellation Design on Extended Kalman Filter Performance</b><br>Paper 981   Liam Smego; Georgia Institute of Technology                                  | <input type="checkbox"/> : Attend<br>☆: Priority |
| 04:45 PM<br>05:00 PM | <b>A Constellation Optimization Approach for Discontinuous Regional Coverage</b><br>Paper 904   Paige Jewell; California Polytechnic State University - San Luis Obispo                             | <input type="checkbox"/> : Attend<br>☆: Priority |

## Attitude Dynamics, Determination and Control

03:30 PM - 05:00 PM | Session Chair(s): Nicola Baresi - Session Chairs | Room: Sutcliffe B

|                      |                                                                                                                                                                             |                                                  |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 03:30 PM<br>03:45 PM | <b>Global Error Characterization of Circular Intermediary Model For Attitude-Orbital Dynamics</b><br>Paper 868   Francisco Crespo; Embry-Riddle Aeronautical University     | <input type="checkbox"/> : Attend<br>☆: Priority |
| 03:45 PM<br>04:00 PM | <b>Robust Satellite Attitude Stabilization in the Orbital Frame</b><br>Paper 609   Fabio Celani; Sapienza University of Rome                                                | <input type="checkbox"/> : Attend<br>☆: Priority |
| 04:00 PM<br>04:15 PM | <b>Multi-Constrained Differential-Drag Attitude-Based Formation Control: A Torque-Based Approach</b><br>Paper 639   Alessio Bocci; UiT The Arctic University of Norway      | <input type="checkbox"/> : Attend<br>☆: Priority |
| 04:15 PM<br>04:30 PM | <b>Optimal Maneuver of a Satellite Flexible Link using a Time-and-Frequency Approach</b><br>Paper 773   Elijah Wilson; Naval Postgraduate School                            | <input type="checkbox"/> : Attend<br>☆: Priority |
| 04:30 PM<br>04:45 PM | <b>Predictor-assisted Image-based Adaptive Sliding Mode Control with Disturbance Observation for Spacecraft Target Pointing</b><br>Paper 921   Jaein Lee; Yonsei University | <input type="checkbox"/> : Attend<br>☆: Priority |

Tuesday, July 28, 2026

## Cislunar Astrodynamics II

08:00 AM - 10:00 AM | Session Chair(s): Emily M. Zimovan-Spreen - Session Chairs | Room: Mt Currie North

|                      |                                                                                                                                                                           |                                                  |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 08:00 AM<br>08:15 AM | <b>Uncertainty Propagation for Cislunar Trajectories using Conic Models</b><br>Paper 1008   James Leith; The University of Texas at Austin                                | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:15 AM<br>08:30 AM | <b>Emergence of Non-Gaussianity in Cislunar Uncertainty Propagation</b><br>Paper 837   Maaninee Gupta; Purdue University                                                  | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:30 AM<br>08:45 AM | <b>Polynomial Chaos Expansion for Uncertainty Propagation in Regularized Cislunar Dynamics</b><br>Paper 718   Davide Roversi; Purdue University                           | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:45 AM<br>09:00 AM | <b>Performing uncertainty propagation, navigation and control in the CRTBP using Taylor operators</b><br>Paper 797   Shantanu Trivedi; Purdue University                  | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:00 AM<br>09:15 AM | <b>Implications of Uncertainty In The Lunar Gravity Model at Low Altitudes</b><br>Paper 755   Gregory Eslinger; Massachusetts Institute of Technology                     | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:15 AM<br>09:30 AM | <b>Assessing Utility of Simplified Propagators for Coarse Propagation in Cislunar Orbits</b><br>Paper 704   Seth Gnesin; University of Maryland                           | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:30 AM<br>09:45 AM | <b>Funnel-Based Vector Field Control for Autonomous Station-Keeping of Cislunar Orbits</b><br>Paper 828   Seur Gi Jo; Embry-Riddle Aeronautical University                | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:45 AM<br>10:00 AM | <b>Approximate Relative Entropy Constraints for Nonlinear Covariance Steering Under Distribution Ambiguity</b><br>Paper 978   Trevor Wolf; University of Colorado Boulder | <input type="checkbox"/> : Attend<br>☆: Priority |

## Spacecraft Guidance, Navigation and Control (GNC) II

08:00 AM - 10:00 AM | Session Chair(s): Alinda Mashiku - Session Chairs | Room: Mt Currie South

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|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 08:00 AM<br>08:15 AM | <b>MILP-based Orbit Maintenance Control for VLEO Satellites with Low-Thrust Propulsion</b><br>Paper 767   Fang Liao; National University of Singapore                                                                                                            | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:15 AM<br>08:30 AM | <b>Adaptive GNSS-Based Relative Navigation for Close Formation Flying Under Continuous Low-Thrust</b><br>Paper 782   Alessandro Michelazzi; Politecnico di Milano                                                                                                | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:30 AM<br>08:45 AM | <b>Tightly-Coupled Estimation and Guidance for Robust Low-Thrust Rendezvous via Adaptive Homotopy</b><br>Paper 893   Batu Candan; Iowa State University                                                                                                          | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:45 AM<br>09:00 AM | <b>Stochastic Predictor-Corrector Guidance for Low Thrust Orbit Transfer using Unscented Transform</b><br>Paper 687   Risa Ito; University of Colorado Boulder                                                                                                   | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:00 AM<br>09:15 AM | <b>Confidence-Weighted INS/LiDAR Tightly Coupled Relative Navigation With Pointnet++-Based Semantic Segmentation for Cooperative Spacecraft Missions</b><br>Paper 761   Hyunseok Choi; Konkuk University                                                         | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:15 AM<br>09:30 AM | <b>Fully Multiplicative Attitude and Orbit Determination for Deep Space Navigation.</b><br>Paper 948   Simone Servadio; Iowa State University                                                                                                                    | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:30 AM<br>09:45 AM | <b>Experimental Validation of Autonomous Spacecraft Navigation using delta Scuti Variable Stars: A Feasibility Study Under Real-World Constraints.</b><br>Paper 987   Ahmed Khan; University of Illinois at Urbana-Champaign Department of Aerospace Engineering | <input type="checkbox"/> : Attend<br>☆: Priority |

## Trajectory Design and Optimization IV

08:00 AM - 10:00 AM | Session Chair(s): James McElreath - Session Chairs | Room: Sutcliffe A

|                      |                                                                                                                                                                                                              |                                                  |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 08:00 AM<br>08:15 AM | <b>TRAJECTORY DESIGN FOR THE LOW-THRUST MOON-ENABLED SUN OCCULTATION MISSION (MESOM)</b><br>Paper 958   Alesia Herasimenka; University of Surrey, Surrey Space Centre                                        | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:15 AM<br>08:30 AM | <b>An accessible and user-oriented approach to LEO mission design.</b><br>Paper 1030   Brady Lawrence; Embry-Riddle Aeronautical University                                                                  | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:30 AM<br>08:45 AM | <b>Duty Cycle Aware Low-Thrust Phasing Maneuver Design Under Operational Constraints</b><br>Paper 1045   Vishal Ray; Kayhan Space                                                                            | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:45 AM<br>09:00 AM | <b>Low-Thrust Minimum-Fuel Optimization with Chance Constraint and CVaR Penalties: an Indirect Approach</b><br>Paper 928   Carmine Giordano; Politecnico di Milano                                           | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:00 AM<br>09:15 AM | <b>Initial Costate Estimation of Minimum-Fuel Problem from Minimum-Time Solution in Low-Thrust Geocentric Transfer</b><br>Paper 762   Yoonho Nam; Korea Advanced Institute of Science and Technology (KAIST) | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:15 AM<br>09:30 AM | <b>Unified Covector Mapping Framework for Low-Thrust Trajectory Optimization</b><br>Paper 911   Niccolò Michelotti; Politecnico di Milano                                                                    | <input type="checkbox"/> : Attend<br>☆: Priority |

## Orbit Determination and Estimation II

08:00 AM - 10:00 AM | Session Chair(s): Ryan Lebois - Session Chairs | Room: Sutcliffe B

|                      |                                                                                                                                                                         |                                                  |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 08:00 AM<br>08:15 AM | <b>Adaptive Deterministic Ensemble Gaussian Mixture Filtering for Cislunar Tracking</b><br>Paper 601   Jakub Matousek; University of Texas at Austin                    | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:15 AM<br>08:30 AM | <b>A Hybrid Particle Gaussian Mixture Filtering Method for Cislunar Target Tracking Under Extreme Uncertainty</b><br>Paper 980   Ishan Paranjape; Texas A&M University  | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:30 AM<br>08:45 AM | <b>Closed-Form Solutions to the Fokker-Planck Equation for Orbital Uncertainty Propagation</b><br>Paper 861   José Antonio Rebollo; University of Seville               | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:45 AM<br>09:00 AM | <b>Higher-Order Square Root Information Filtering</b><br>Paper 640   Kian Shakerin; University of Colorado Boulder                                                      | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:00 AM<br>09:15 AM | <b>Cislunar Autonomous Navigation Using Direction-of-Arrival-Augmented Radiometric Measurements</b><br>Paper 835   Aaron Liao; Purdue University                        | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:15 AM<br>09:30 AM | <b>Distributed Cooperative Navigation for Deep-Space Constellations Using Long-Range Optical Inter-Satellite Links</b><br>Paper 1046   Hosei O; The University of Tokyo | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:30 AM<br>09:45 AM | <b>Stellar-Limb Optical Navigation: A Novel Approach for Low-Altitude Horizon-Based Optical Navigation</b><br>Paper 634   Thomas Buteux; University of Leicester        | <input type="checkbox"/> : Attend<br>☆: Priority |

## Space Situational Awareness, Conjunction Analysis, and Collision Avoidance II

10:30 AM - 12:00 PM | Session Chair(s): Alinda Mashiku - Session Chairs | Room: Mt Currie North

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|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 10:30 AM<br>10:45 AM | <b>State Uncertainty Quantification in VLEO Contextualized for Mission Operations</b><br>Paper 961   Vishal Ray; Kayhan Space                                   | <input type="checkbox"/> : Attend<br>☆: Priority |
| 10:45 AM<br>11:00 AM | <b>New Atmospheric Model Performance Results for Satellite Operations in LEO</b><br>Paper 698   David Vallado; Commercial Space Operations Center               | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:00 AM<br>11:15 AM | <b>Launch Window Cutouts for Satellites Ascending into Existing Constellations</b><br>Paper 615   Jasmine Johnson; a.i. solutions                               | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:15 AM<br>11:30 AM | <b>Non-linear parametrization of collision tube for long-term encounters</b><br>Paper 745   Tommaso Robbiani; Politecnico di Milano                             | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:30 AM<br>11:45 AM | <b>Hardware-Accelerated Modeling, Simulation, and Analysis of Future Space Traffic</b><br>Paper 849   Rohan Motheram; Georgia Institute of Technology           | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:45 AM<br>12:00 PM | <b>Conjunction Assessment and Passively Safe Impulsive Escape for Autonomous Co-Orbiting Spacecraft</b><br>Paper 818   Mason Murray-Cooper; Stanford University | <input type="checkbox"/> : Attend<br>☆: Priority |

## Machine Learning and Artificial Intelligence Applied to Spaceflight III

10:30 AM - 12:00 PM | Session Chair(s): John Martin - Session Chairs | Room: Mt Currie South

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|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 10:30 AM<br>10:45 AM | <b>Memory-Efficient Meta-Reinforcement Learning for Adaptive Safety-Critical Control in Adversarial Spacecraft Proximity Operations</b><br>Paper 883   Minduli Charithma Wijayatunga; University of Illinois Urbana-Champaign                     | <input type="checkbox"/> : Attend<br>☆: Priority |
| 10:45 AM<br>11:00 AM | <b>Design Principles for Explainable and Adaptive AI in Space Differential Games</b><br>Paper 896   Tyler Barr; Embry-Riddle Aeronautical University, XDLab                                                                                       | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:00 AM<br>11:15 AM | <b>First AI-planned autonomous navigation waypoints for the Mars Perseverance rover</b><br>Paper 647   Vandt Verma; JPL                                                                                                                           | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:15 AM<br>11:30 AM | <b>Tiny Recursive Models for Solving J2-Perturbed Lambert Problem</b><br>Paper 862   Minduli Charithma Wijayatunga; University of Illinois Urbana-Champaign                                                                                       | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:30 AM<br>11:45 AM | <b>Principal Component Analysis for Lunar Crater Detection</b><br>Paper 675   Travis Driver; Georgia Institute of Technology                                                                                                                      | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:45 AM<br>12:00 PM | <b>Rapid Preliminary Two-Impulse Transfer Design Using a Residual Universal-Variable Neural Surrogate for Multi-Revolution Lambert Solutions</b><br>Paper 1022   Drew Stannard-Stockton; California Polytechnic State University, San Luis Obispo | <input type="checkbox"/> : Attend<br>☆: Priority |

## Rendezvous, Relative Motion, and Proximity Operations II

10:30 AM - 12:00 PM | Session Chair(s): Jennifer Hudson - Session Chairs | Room: Sutcliffe A

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|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 10:30 AM<br>10:45 AM | <b>Adaptive Optimal Control Framework for Nonlinear Stochastic Systems with Unknown Multiplicative Noise for High-Precision Formation Flying</b><br>Paper 673   Takahiro Takano; The University of Tokyo | <input type="checkbox"/> : Attend<br>☆: Priority |
| 10:45 AM<br>11:00 AM | <b>Optimal Covariance Control for Reconfiguration of Cislunar Spacecraft Formations</b><br>Paper 691   Parker Stewart; University of Toronto Institute for Aerospace Studies                             | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:00 AM<br>11:15 AM | <b>Analysis of Controller Robustness on Tschauner-Hempel Models Using Discrete-Time Linear Time-Varying Gap Metrics</b><br>Paper 1013   Quintin Nelson; Texas A&M University                             | <input type="checkbox"/> : Attend<br>☆: Priority |

## Rendezvous, Relative Motion, and Proximity Operations II

10:30 AM - 12:00 PM | Session Chair(s): Jennifer Hudson - Session Chairs | Room: Sutcliffe A

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|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 11:15 AM<br>11:30 AM | <b>Local Finite-Thrust Patch-Coast Realization for Fixed-Time V-Bar Glideslope References</b><br>Paper 905   Jeongwoo Lim; Korea Advanced Institute of Science and Technology | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:30 AM<br>11:45 AM | <b>Geometry-Based Analysis of Motion Relative to Periodic Orbits in a Multi-Body System</b><br>Paper 808   Maxwell Joyner; University of Colorado Boulder                     | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:45 AM<br>12:00 PM | <b>Optimal Coordinated Space-based Swarm Operations Using a Co-evolution Strategy in a Genetic Algorithm</b><br>Paper 746   Ethan Olson; University of Arizona                | <input type="checkbox"/> : Attend<br>☆: Priority |

## Space Domain Awareness (SDA) and Space Surveillance II

10:30 AM - 12:00 PM | Session Chair(s): Heather Koehler - Session Chairs | Room: Sutcliffe B

|                      |                                                                                                                                                                                                  |                                                  |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 10:30 AM<br>10:45 AM | <b>Multi-Sensor Data Fusion for Enhanced Cislunar Space Domain Awareness Using Radar and Optical Observations</b><br>Paper 944   Lucas Bottero; Embry-Riddle Aeronautical University             | <input type="checkbox"/> : Attend<br>☆: Priority |
| 10:45 AM<br>11:00 AM | <b>Scalable, Information-based Sensor Tasking for Space Domain Awareness</b><br>Paper 702   Taylor Stiffler; University of Texas at Austin                                                       | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:00 AM<br>11:15 AM | <b>Incorporating Observation Quality into Space-Based Sensor Constellation Design for Space Domain Awareness</b><br>Paper 919   Dongshik Won; Korea Advanced Institute of Science and Technology | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:15 AM<br>11:30 AM | <b>Constellation Design for Cislunar Space Surveillance Based on Optimal Visibility</b><br>Paper 950   Stephanie Quan; Embry-Riddle Aeronautical University                                      | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:30 AM<br>11:45 AM | <b>An End-to-End Framework for Cislunar Space Situational Awareness and Multitarget Tracking using Photometry</b><br>Paper 834   Sourav Ghosh; The University of Tokyo                           | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:45 AM<br>12:00 PM | <b>Compact Orbital Representation for Efficient Tracking in Cislunar Space</b><br>Paper 812   Mauro Palomo; Embry-Riddle Aeronautical University                                                 | <input type="checkbox"/> : Attend<br>☆: Priority |

## Cislunar Astrodynamics III

01:15 PM - 03:00 PM | Session Chair(s): Rohith Reddy Sanaga - Session Chairs | Room: Mt Currie North

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|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 01:15 PM<br>01:30 PM | <b>Rendezvous and Proximity Operations in the Cislunar Region for Rigid Bodies Using Super-Twisting Sliding Mode Controllers</b><br>Paper 810   Isaac Chairez; Tecnologico de Monterrey           | <input type="checkbox"/> : Attend<br>☆: Priority |
| 01:30 PM<br>01:45 PM | <b>Automatically Extracting the Geometry of a Spacecraft Trajectory in a Multi-Body System</b><br>Paper 726   Natasha Bosanac; University of Colorado, Boulder                                    | <input type="checkbox"/> : Attend<br>☆: Priority |
| 01:45 PM<br>02:00 PM | <b>A Multi-Stage Optimization Framework for Cislunar Surveillance Constellation Design</b><br>Paper 877   Luke Fortner; Purdue University                                                         | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:00 PM<br>02:15 PM | <b>Stability in Circumlunar Space: Terrestrial Resonances from the Selenoterrestrial Laplace Radius to the Moon's Hill Sphere</b><br>Paper 757   Louis Carton; University of California San Diego | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:15 PM<br>02:30 PM | <b>Phase B1 Study of the Volatile Mineralogy Mapping Orbiter</b><br>Paper 975   Nicola Baresi; University of Surrey                                                                               | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:30 PM<br>02:45 PM | <b>Symplectic Methods for Indirect Optimal Control in Multibody Dynamics</b><br>Paper 843   Anabel Soria-Carro; University of Texas Austin                                                        | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:45 PM<br>03:00 PM | <b>Robust control for coordinated multi-rigid body rendezvous operations in the cislunar region</b><br>Paper 890   Justin Schmitt; Embry-Riddle Aeronautical University                           | <input type="checkbox"/> : Attend<br>☆: Priority |

## Machine Learning and Artificial Intelligence Applied to Spaceflight IV

01:15 PM - 03:00 PM | Session Chair(s): Brian Gunter - Session Chairs | Room: Mt Currie South

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|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 01:15 PM<br>01:30 PM | <b>Physics-Informed Decoder-Only Transformer for Trajectory Design in the Circular Restricted Three-Body Problem</b><br>Paper 769   Akira Hatakeyama; The Graduate University for Advanced Studies, SOKENDAI    | <input type="checkbox"/> : Attend<br>☆: Priority |
| 01:30 PM<br>01:45 PM | <b>Onboard Attitude Knowledge Error Characterization and Compensation through Residual Smoothing for High Accuracy ADCS</b><br>Paper 956   CHIRANJIB GUHA MAJUMDER; Indian Space Research Organization          | <input type="checkbox"/> : Attend<br>☆: Priority |
| 01:45 PM<br>02:00 PM | <b>Transformer-Informed Trajectory Optimization for Relative Motion in Cislunar Orbits</b><br>Paper 931   Walter Manuel; Stanford University                                                                    | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:00 PM<br>02:15 PM | <b>Physics-Informed Conditional Normalizing Flows For Angles-Only Cislunar Orbit Determination</b><br>Paper 875   Walther Litteri; Aerospace Centre of Excellence - University of Strathclyde                   | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:15 PM<br>02:30 PM | <b>Mitigating Data Scarcity in Spaceflight Applications for Offline Reinforcement Learning using Physics-Informed Deep Generative Models</b><br>Paper 918   Raghvendra Cowlagi; Worcester Polytechnic Institute | <input type="checkbox"/> : Attend<br>☆: Priority |

## Machine Learning and Artificial Intelligence Applied to Spaceflight IV

01:15 PM - 03:00 PM | Session Chair(s): Brian Gunter - Session Chairs | Room: Mt Currie South

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|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 02:30 PM<br>02:45 PM | <b>Machine Learning-Based Correction of Orbit Determination Errors Using Filter Banks for Deep Space Navigation</b><br>Paper 707   Justin Mansell; Caltech Jet Propulsion Laboratory | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:45 PM<br>03:00 PM | <b>Comparative Study of Diffusion Model Variants for Spacecraft Trajectory Optimization</b><br>Paper 1049   Sriram Elango; Harvard University                                        | <input type="checkbox"/> : Attend<br>☆: Priority |

## Trajectory Design and Optimization V

01:15 PM - 03:00 PM | Session Chair(s): Atri Dutta - Session Chairs | Room: Sutcliffe A

|                      |                                                                                                                                                                                                             |                                                  |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 01:15 PM<br>01:30 PM | <b>A Combinatorial Multi-Armed Bandit Approach to Multi-Client Servicing in Cislunar Space</b><br>Paper 937   Jonathon Hope; Pennsylvania State University                                                  | <input type="checkbox"/> : Attend<br>☆: Priority |
| 01:30 PM<br>01:45 PM | <b>Routing and Assignment for Multi-Payload On-Orbit Transport Using Heterogenous Servicer Fleets</b><br>Paper 925   Shan Selvamurugan; Georgia Institute of Technology                                     | <input type="checkbox"/> : Attend<br>☆: Priority |
| 01:45 PM<br>02:00 PM | <b>Enhancing Trajectory Optimization for Interplanetary Transfers through Gaussian Mixture</b><br>Paper 636   David Knapick; Iowa State University                                                          | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:00 PM<br>02:15 PM | <b>ADAPTIVE PSEUDOSPECTRAL COLLOCATION FRAMEWORK FOR HIGH-ACCURACY ASTRODYNAMICS TRAJECTORY OPTIMIZATION</b><br>Paper 1015   Aniket Bire; Texas A&M University                                              | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:15 PM<br>02:30 PM | <b>Designing Two-Impulse Interplanetary Trajectory with Minimum Fuel and Free-Final Time Using Analytic Gradients</b><br>Paper 763   Yoonho Nam; Korea Advanced Institute of Science and Technology (KAIST) | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:30 PM<br>02:45 PM | <b>Designing Artemis Abort Trajectories Using Kinodynamic Path Planning</b><br>Paper 920   Kristen Bruchko; Advanced Space                                                                                  | <input type="checkbox"/> : Attend<br>☆: Priority |

## Dynamical Systems Theory Applied to Spaceflight Problems II

01:15 PM - 03:00 PM | Session Chair(s): Maaninee Gupta - Session Chairs | Room: Sutcliffe B

|                      |                                                                                                                                                                                                                                 |                                                  |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 01:15 PM<br>01:30 PM | <b>Analysis of the Lunar Collision Orbits in the Spatial Circular Restricted Three-Body Problem</b><br>Paper 770   Soichiro Shin; Kyushu University                                                                             | <input type="checkbox"/> : Attend<br>☆: Priority |
| 01:30 PM<br>01:45 PM | <b>Ejection Collision Orbits in the Spatial Restricted 3-Body Problem</b><br>Paper 878   Joan Gimeno; Universitat de Barcelona                                                                                                  | <input type="checkbox"/> : Attend<br>☆: Priority |
| 01:45 PM<br>02:00 PM | <b>Divergence Mechanisms for Normal Forms in the Circular Restricted Three-Body Problem</b><br>Paper 730   Robert Y. Lee; Purdue University                                                                                     | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:00 PM<br>02:15 PM | <b>Halo-Centric Normal Form via Symplectic Reduction in the Circular-Restricted Three-Body Problem</b><br>Paper 955   Juan-Pablo Almanza-Soto; Purdue University                                                                | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:15 PM<br>02:30 PM | <b>A Hamiltonian Perturbation Framework for Interpreting the Circular Restricted Three-Body Problem as a Deformation of the Two-Fixed Centers Problem</b><br>Paper 624   Francisco Crespo; Embry-Riddle Aeronautical University | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:30 PM<br>02:45 PM | <b>Quasi-Periodic Invariant Manifolds in the In-Plane Quasi-Hill Restricted Four-Body Problem</b><br>Paper 622   Guido Grossi; Politecnico di Milano                                                                            | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:45 PM<br>03:00 PM | <b>Structure-Guided Optimal Transfers via Extended Hamiltonian Structure in the Hill Three-Body Problem</b><br>Paper 766   Shanshan Pan; Kyushu University                                                                      | <input type="checkbox"/> : Attend<br>☆: Priority |

## Poster Session

03:30 PM - 05:00 PM | Room: Mt Currie

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|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
|  | <b>APOLLO VS FNPEG ENTRY TERMINAL POINT GUIDANCE COMPARISONS FOR A MARS EDL MISSION</b><br>Paper 602   Lynn McGrew; NASA Johnson Space Center                                                    | <input type="checkbox"/> : Attend<br>☆: Priority |
|  | <b>Dynamic Multi-Scale Feature Alignment via Learnable Spatial-Channel Offset</b><br>Paper 644   Jiale Wang; Xi'an Institute of Optics and Precision Mechanics, CAS                              | <input type="checkbox"/> : Attend<br>☆: Priority |
|  | <b>Efficacy of the Monte Carlo Method in Predicting Orbital Divergences</b><br>Paper 658   Sofia Kukec; Wolfpack CubeSat Development Team                                                        | <input type="checkbox"/> : Attend<br>☆: Priority |
|  | <b>Non-Invasive Monitoring of Physiological Adaptation in Microgravity via Vocal Biomarkers: Findings from the ISS VOCALCORD Experiment</b><br>Paper 674   Oğuzhan Aydemir; Nisantasi University | <input type="checkbox"/> : Attend<br>☆: Priority |
|  | <b>Comparative Analysis of Physics-Informed and Hamiltonian Neural ODEs for Free-Floating Space Manipulator Dynamics</b><br>Paper 720   Hadi Jahanshahi; York University                         | <input type="checkbox"/> : Attend<br>☆: Priority |
|  | <b>Time-Varying Vibration Dynamics of a Clamped Flexible Beam with a Single-Gimbal Control Moment Gyroscope</b><br>Paper 732   shengyu Lin; Harbin Institute of technology                       | <input type="checkbox"/> : Attend<br>☆: Priority |

## Poster Session

03:30 PM - 05:00 PM | Room: Mt Currie

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|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
|  | <b>Robust Adaptive Automatic Family Continuation and Search in CR3BP</b><br>Paper 736   Isaac Lyss-Loren; Aeronautics and Astronautics, Purdue University                                                                   | <input type="checkbox"/> : Attend<br>☆: Priority |
|  | <b>PPO VS. SAC: A COMPARATIVE STUDY FOR COOPERATIVE MOTION CONTROL OF DUAL-ARM SPACE ROBOTS</b><br>Paper 740   Nasim Fallahiazezoodar; York University                                                                      | <input type="checkbox"/> : Attend<br>☆: Priority |
|  | <b>IQC-BASED ROBUST ATTITUDE CONTROL OF SPACECRAFT UNDER ACTUATOR SATURATION AND PARAMETRIC UNCERTAINTY</b><br>Paper 742   ABHIJIT CHAKRABORTY; Raytheon Technologies Research Center                                       | <input type="checkbox"/> : Attend<br>☆: Priority |
|  | <b>Photometry-aware Sensor Placement for Cislunar Space Situational Awareness</b><br>Paper 841   Sourav Ghosh; The University of Tokyo                                                                                      | <input type="checkbox"/> : Attend<br>☆: Priority |
|  | <b>Effect of Map-Template Errors on Terrain Relative Navigation Performance</b><br>Paper 887   John Christian; Georgia Institute of Technology                                                                              | <input type="checkbox"/> : Attend<br>☆: Priority |
|  | <b>Coordinated Control of Vibration Suppression and Attitude Maneuver for Large Dumbbell-Type Spacecraft</b><br>Paper 903   Xinhai Ma; Harbin Institute of Technology                                                       | <input type="checkbox"/> : Attend<br>☆: Priority |
|  | <b>Sensitivity-Based Calibration of Atmospheric Drag and Local Solar Time Density Asymmetry in Semi-Analytical Orbit Propagation Using TLE Time Series</b><br>Paper 914   Florent Deleflie; Paris Observatory               | <input type="checkbox"/> : Attend<br>☆: Priority |
|  | <b>Bug-SO(3): A Complete, Linear-Time Attitude Path Planner for Spacecraft Keep-Out Zone Avoidance</b><br>Paper 930   Ryan Goodman; TenOne Aerospace                                                                        | <input type="checkbox"/> : Attend<br>☆: Priority |
|  | <b>Small Eccentricity Restricted 3 Body Problem</b><br>Paper 972   Connor Lashley; Ohio State University                                                                                                                    | <input type="checkbox"/> : Attend<br>☆: Priority |
|  | <b>Adaptive Gradient-Descent MPC for Computationally Constrained Satellite Docking</b><br>Paper 979   Alyssa Revilla-Norris; University of Florida                                                                          | <input type="checkbox"/> : Attend<br>☆: Priority |
|  | <b>Analysis of Establishing a Mars Constellation based on Orbit Insertion Strategies</b><br>Paper 983   Alexandra Carrico; Virginia Tech                                                                                    | <input type="checkbox"/> : Attend<br>☆: Priority |
|  | <b>A Grid-Based Machine Learning Approach for Now-Casting Solar-Induced Satellite Decay in the Thermosphere</b><br>Paper 1003   Ian Hokaj; U.S. Air Force                                                                   | <input type="checkbox"/> : Attend<br>☆: Priority |
|  | <b>Predictive detection and prioritization of dynamic earth events from low earth orbit under observation and latency constraints using autonomous geospatial processing</b><br>Paper 1021   Gustavo Garcia; IKU IT / RADIX | <input type="checkbox"/> : Attend<br>☆: Priority |
|  | <b>Evaluating cislunar navigation accuracy using multiple measurement types</b><br>Paper 1027   Mohamed Nassif; Georgia Tech/ LSAS Tec                                                                                      | <input type="checkbox"/> : Attend<br>☆: Priority |
|  | <b>Chaos-Assisted Passive Formation Control of CubeSat Constellations: Differential Drag, Zonal Harmonic Perturbations, and Melnikov-Guided Attractor Targeting</b><br>Paper 1032   Aditya Nori; n/a                        | <input type="checkbox"/> : Attend<br>☆: Priority |
|  | <b>Design of a Long-Endurance Mars Terrain Mapping Aircraft</b><br>Paper 1048   Germán Valencia Alvarez; Universidad Anahuac Queretaro / Anahuac Space Force                                                                | <input type="checkbox"/> : Attend<br>☆: Priority |
|  | <b>Nanosatellite-Scale Shortwave Infrared Imaging Technology Demonstrator for Space Situational Awareness</b><br>Paper 1052   David Dobrzanski; York University                                                             | <input type="checkbox"/> : Attend<br>☆: Priority |

## Satellite Constellations and Formations II

03:30 PM - 05:00 PM | Session Chair(s): Hang Woon Lee - Session Chairs | Room: Sutcliffe A

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|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <b>03:30 PM</b><br><b>03:45 PM</b> | <b>Application of Tensegrity-Based Formation Control to Spacecraft Proximity Operations</b><br>Paper 1014   Quintin Nelson; Texas A&M University                                | <input type="checkbox"/> : Attend<br>☆: Priority |
| <b>03:45 PM</b><br><b>04:00 PM</b> | <b>High-Order Expansion Maps for Fast Formation Design on Quasiperiodic Orbits</b><br>Paper 1053   Karel Hernandez Bandrich; Purdue University                                  | <input type="checkbox"/> : Attend<br>☆: Priority |
| <b>04:00 PM</b><br><b>04:15 PM</b> | <b>Coordinated Spacecraft Attitude Control for Hurricane Monitoring Constellations</b><br>Paper 977   Atri Dutta; Wichita State University                                      | <input type="checkbox"/> : Attend<br>☆: Priority |
| <b>04:15 PM</b><br><b>04:30 PM</b> | <b>H-infinity Control on Local Toroidal Coordinates for Cislunar Spacecraft Formations</b><br>Paper 612   Parker Stewart; University of Toronto Institute for Aerospace Studies | <input type="checkbox"/> : Attend<br>☆: Priority |
| <b>04:30 PM</b><br><b>04:45 PM</b> | <b>Guidance for Station and Formation Keeping of Constellations in Low Earth Orbit</b><br>Paper 733   Seungmin Han; Korea Advanced Institute of Science and Technology (KAIST)  | <input type="checkbox"/> : Attend<br>☆: Priority |

## Asteroid and Interplanetary Mission Design

03:30 PM - 05:00 PM | Session Chair(s): Daniel Wibben - Session Chairs | Room: Sutcliffe B

|                                    |                                                                                                                    |                                                  |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <b>03:30 PM</b><br><b>03:45 PM</b> | <b>Spacecraft Escape Trajectories From A Fast-Rotating Asteroid</b><br>Paper 627   Tomohiro Ishizuka; ISAE-SUPAERO | <input type="checkbox"/> : Attend<br>☆: Priority |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|

## Asteroid and Interplanetary Mission Design

03:30 PM - 05:00 PM | Session Chair(s): Daniel Wibben - Session Chairs | Room: Sutcliffe B

|                                    |                                                                                                                                                                                                                 |                                                  |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <b>03:45 PM</b><br><b>04:00 PM</b> | <b>Trade-Off Analysis of Electric Propulsion Trajectory Sequences for Earth-to-Mars Transfer in Terms of Delta-V and Flight Time</b><br>Paper 689   Saki Komachi; Australian National University                | <input type="checkbox"/> : Attend<br>☆: Priority |
| <b>04:00 PM</b><br><b>04:15 PM</b> | <b>Database of Low Delta-V Flyby Trajectories to the Outer Solar System</b><br>Paper 882   William Brandenburg; The University of Texas at Austin Department of Aerospace Engineering and Engineering Mechanics | <input type="checkbox"/> : Attend<br>☆: Priority |
| <b>04:15 PM</b><br><b>04:30 PM</b> | <b>A Rendezvous with Apophis</b><br>Paper 966   Darrel Conway; Thinking Systems, Inc.                                                                                                                           | <input type="checkbox"/> : Attend<br>☆: Priority |
| <b>04:30 PM</b><br><b>04:45 PM</b> | <b>Heliotropic Orbits around the 65803 Didymos Binary Asteroid System</b><br>Paper 968   Maisa Terra; ITA                                                                                                       | <input type="checkbox"/> : Attend<br>☆: Priority |

Wednesday, July 29, 2026

## Trajectory Design and Optimization VI

08:00 AM - 10:00 AM | Session Chair(s): Sonia Hernandez - Session Chairs | Room: Mt Currie North

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|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 08:00 AM<br>08:15 AM | <b>SIGMOID SMOOTHING FOR BANG-OFF-BANG OPTIMAL CONTROL WITH APPLICATIONS TO LOW-THRUST FUEL-OPTIMAL TRANSFERS IN CRTBP</b><br>Paper 645   Satyendra Singh; Indian Institute of Technology, Kanpur | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:15 AM<br>08:30 AM | <b>A Novel Costate Initialization Method for Solving Bang-Bang Optimal Control Problems</b><br>Paper 811   Taewoo Jeong; Yonsei University                                                        | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:30 AM<br>08:45 AM | <b>A Transcription-Agnostic Formulation for Optimal Control and Estimation in Astrodynamics</b><br>Paper 971   Steven Hughes; Gen Astro LLC                                                       | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:45 AM<br>09:00 AM | <b>Parameter Continuation of Radau Collocation Methods for Numerical Optimal Control</b><br>Paper 794   Casey Heidrich; University of Colorado Boulder                                            | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:00 AM<br>09:15 AM | <b>Optimal Design and Control of Origami-inspired Diffractive Sails With Passive Stability</b><br>Paper 679   Aditya Arjun Anibha; Purdue University                                              | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:15 AM<br>09:30 AM | <b>Averaged Indirect Optimization of Many-Revolution Very-Low-Thrust Transfers</b><br>Paper 929   Alessandro Zavoli; Sapienza University of Rome                                                  | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:30 AM<br>09:45 AM | <b>Clarity-1 Transfer Trajectory to VLEO and Thrust Operations</b><br>Paper 706   Kevin Kloster; Albedo                                                                                           | <input type="checkbox"/> : Attend<br>☆: Priority |

## Orbit Determination and Estimation III

08:00 AM - 10:00 AM | Session Chair(s): Andrew Goetz - Session Chairs | Room: Mt Currie South

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|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 08:00 AM<br>08:15 AM | <b>Distributed Unscented Kalman Filter (UKF)-Based Navigation for Absolute State Estimation in Multi-Spacecraft Formation</b><br>Paper 613   Simone Servadio; Iowa State University                    | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:15 AM<br>08:30 AM | <b>Photometric Measurement Model for State Estimation</b><br>Paper 982   Priyal Soni; Georgia Institute of Technology                                                                                  | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:30 AM<br>08:45 AM | <b>Nonlinear Observability Analysis Across Distinct Radar and Optical Measurement Sets for Orbit State Estimation</b><br>Paper 806   Julia Alvarez Vallerio; University of Texas at Arlington          | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:45 AM<br>09:00 AM | <b>Nonlinear Estimation with Polynomial Chaos Leveraging Random Input Reduction and Multi-Fidelity Augmentation</b><br>Paper 699   Zee Toler; The University of Texas at Austin                        | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:00 AM<br>09:15 AM | <b>SPCE-KF: Uncertainty Quantification for Orbit Propagation Using Kalman Filtering and Stochastic Polynomial Chaos Expansion</b><br>Paper 960   Gerardo Josue Rivera Santos; West Virginia University | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:15 AM<br>09:30 AM | <b>Impact of Orbit Determination Termination Epoch on PDI State Uncertainty for a Lunar Lander</b><br>Paper 666   Jonghee Bae; Korea Aerospace Research Institute                                      | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:30 AM<br>09:45 AM | <b>Filter Consistency Under Gravitational Model Truncation in Low Lunar Orbit Across Orbital Regimes</b><br>Paper 672   Sabrina Nicacio; Stanford University                                           | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:45 AM<br>10:00 AM | <b>Demonstration of Spacecraft-Spacecraft Differenced VLBI for Improved Orbit Determination On Mars Approach</b><br>Paper 752   Justin Mansell; Caltech Jet Propulsion Laboratory                      | <input type="checkbox"/> : Attend<br>☆: Priority |

## Cislunar Astrodynamics IV

08:00 AM - 10:00 AM | Session Chair(s): Brian McCarthy - Session Chairs | Room: Sutcliffe A

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|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 08:00 AM<br>08:15 AM | <b>LiAISON-Based Consensus UKF for Relative Orbit Estimation in Cislunar Space</b><br>Paper 939   Mohammed Atallah; Iowa State University                | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:15 AM<br>08:30 AM | <b>Relative Orbit Estimation in Cislunar Space Using Augmented UKF-SLAM</b><br>Paper 1006   Mohammed Atallah; Iowa State University                      | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:30 AM<br>08:45 AM | <b>Cislunar Initial Orbit Determination via Laplace's Method</b><br>Paper 900   Gabriel Lundin; Texas A&M University                                     | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:45 AM<br>09:00 AM | <b>Adaptive Tracking Method for Cislunar Objects Based on Higher-Order Moments</b><br>Paper 976   Joshua Zastrow; University at Buffalo                  | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:00 AM<br>09:15 AM | <b>Isolating Perturbing Cislunar Effects on Orbits through a Homotopy-based Unified Transitioning Scheme</b><br>Paper 694   Jay Singh; Purdue University | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:15 AM<br>09:30 AM | <b>Design of Phasing Constrained Low-Thrust Transfers for On-Orbit Servicing</b><br>Paper 774   Liam Fahey; Purdue University                            | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:30 AM<br>09:45 AM | <b>Behavioral Prediction for Low-Thrust Spacecraft in the Earth-Moon System</b><br>Paper 751   Cole Gillespie; University of Colorado Boulder            | <input type="checkbox"/> : Attend<br>☆: Priority |

## Cislunar Astrodynamics IV

08:00 AM - 10:00 AM | Session Chair(s): Brian McCarthy - Session Chairs | Room: Sutcliffe A

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|----------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 09:45 AM<br>10:00 AM | <b>Cislunar Orbital Networks in the Earth-Moon CR3BP</b><br>Paper 853   Shane Ross; Virginia Tech | <input type="checkbox"/> : Attend<br>☆: Priority |
|----------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------|

## Spacecraft Guidance, Navigation and Control (GNC) III

08:00 AM - 10:00 AM | Session Chair(s): Vishal Ray - Session Chairs | Room: Sutcliffe B

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|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 08:00 AM<br>08:15 AM | <b>Impulse Controlled Poincare' Map (ICPM) Framework for Station-Keeping in Multi-Body Environments</b><br>Paper 870   Roshan Thomas Eapen; The Pennsylvania State University  | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:15 AM<br>08:30 AM | <b>Canonical Floquet Modal Control for Station-Keeping Near Periodic Orbits</b><br>Paper 963   Evan Lantier; The Pennsylvania State University                                 | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:30 AM<br>08:45 AM | <b>Multi-Stage Guidance with Reachability-Informed Terminal Constraints</b><br>Paper 713   Kristen Amarelli; University of Colorado Boulder                                    | <input type="checkbox"/> : Attend<br>☆: Priority |
| 08:45 AM<br>09:00 AM | <b>COLLISION AVOIDANCE MANOEUVRE DESIGN UNDER OPERATIONAL CONSTRAINTS USING REACTION CONTROL THRUSTERS</b><br>Paper 867   Eduardo Maria Polli; Politecnico di Milano           | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:00 AM<br>09:15 AM | <b>Optimal Phasing Maneuvers for Libration Point Trajectories Leveraging Hamiltonian Normal Forms</b><br>Paper 1002   Carson Hunsberger; The Pennsylvania State University     | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:15 AM<br>09:30 AM | <b>Control-Bounded Optimal Feedback Control via Generating Functions and Explicit Hamiltonian Minimization</b><br>Paper 825   Kwanyeong Kim; Yonsei University                 | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:30 AM<br>09:45 AM | <b>Sequential convex programming with homotopy for spin-to-spin time-optimal attitude maneuvers</b><br>Paper 764   Jiwon Lee; KAIST                                            | <input type="checkbox"/> : Attend<br>☆: Priority |
| 09:45 AM<br>10:00 AM | <b>CONSOLIDATED REAL-TIME RANGE AND CLOCK SYNCHRONIZATION SCHEME TAKING THE RELATIVISTIC EFFECTS INTO ACCOUNT</b><br>Paper 1010   Saki Komachi; Australian National University | <input type="checkbox"/> : Attend<br>☆: Priority |

## Trajectory Design and Optimization VII

10:30 AM - 12:00 PM | Session Chair(s): Kenshiro Oguri - Session Chairs | Room: Mt Currie North

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|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 10:30 AM<br>10:45 AM | <b>Parametric Study of Intermediate Thrust Arcs for Autonomous Satellite Collision Avoidance</b><br>Paper 876   Mitchel McLean; University of Hawaii at Manoa                                                          | <input type="checkbox"/> : Attend<br>☆: Priority |
| 10:45 AM<br>11:00 AM | <b>Analytical Integrability and Non-uniqueness of Solutions to the Canonical Equations for Intermediate and Maximum Thrust Arcs in a Newtonian Field</b><br>Paper 916   Dilmurat Azimov; University of Hawaii at Manoa | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:00 AM<br>11:15 AM | <b>An Efficient Non-Gaussian Chance Constraint Method for Stochastic Nonlinear Problems in Spaceflight</b><br>Paper 899   Ethan Burnett; University of Texas at Austin                                                 | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:15 AM<br>11:30 AM | <b>Generalized Nonlinear Spacecraft Targeting with Implicit Sensitivities</b><br>Paper 970   Quinn Moon; University of Texas                                                                                           | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:30 AM<br>11:45 AM | <b>IMAP FLIGHT DYNAMICS PERFORMANCE AND OPERATIONS DURING COMMISIONING</b><br>Paper 898   Fazle Siddique; Johns Hopkins University Applied Physics Laboratory                                                          | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:45 AM<br>12:00 PM | <b>Gravity-Gradient Orbit-Attitude Coupling for Propellant-Free Orbital Control at Unstable Three-Body Libration Points</b><br>Paper 865   Silvia Busi; Chair of Astrodynamics, Technical University of Munich         | <input type="checkbox"/> : Attend<br>☆: Priority |

## Orbital Debris and Space Environment II

10:30 AM - 12:00 PM | Session Chair(s): Ciara McGrath - Session Chairs | Room: Mt Currie South

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|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 10:30 AM<br>10:45 AM | <b>Taylor Series Integration and Differential Algebra for Accurate Prediction of the Orbital Decay of Tumbling Space Debris</b><br>Paper 846   Emma Pignacca; Delft University of Technology | <input type="checkbox"/> : Attend<br>☆: Priority |
| 10:45 AM<br>11:00 AM | <b>The Perturbation of Charged Space Debris Orbits by the Polar Cap Convection Electric Field</b><br>Paper 650   Jonathan Wrieden; University of Maryland                                    | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:00 AM<br>11:15 AM | <b>Epidemics in Orbit: A Metapopulation Framework for Spatially Structured Orbital Debris Dynamics</b><br>Paper 803   Rachel Sholder; JHU/APL                                                | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:15 AM<br>11:30 AM | <b>A Network Theoretic Quantification of the Orbital Carrying Capacity</b><br>Paper 995   Pietro De Marchi; University of Strathclyde                                                        | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:30 AM<br>11:45 AM | <b>A Lightweight Space Debris Detection Framework Based on Improved RT-DETR</b><br>Paper 817   Jiashu Lin; Dalian University of Technology                                                   | <input type="checkbox"/> : Attend<br>☆: Priority |

## Earth Orbital and Planetary Mission Studies

10:30 AM - 12:00 PM | Session Chair(s): Bryan Cline - Session Chairs | Room: Sutcliffe A

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|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 10:30 AM<br>10:45 AM | <b>Haven-Demo Technology Demonstration Mission for Future Haven-1 Space Station</b><br>Paper 831   Sergei I. Tanygin; Vast, Inc                                                           | <input type="checkbox"/> : Attend<br>☆: Priority |
| 10:45 AM<br>11:00 AM | <b>Satellite Constellation Coverage Computation Using Area Polygons</b><br>Paper 866   Caleb Arbretton; California Polytechnic State University - San Luis Obispo                         | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:00 AM<br>11:15 AM | <b>Review of Current and Future Robotic In-Space Assembly, Manufacturing, and Servicing (ISAM) Capabilities</b><br>Paper 965   Jennifer Hudson; Michigan State University                 | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:15 AM<br>11:30 AM | <b>Development and Evaluation of a Hardware-in-the-Loop Testbed for GNSS-Based Formation Flying of Three Microsatellites</b><br>Paper 771   Kazuya Fukuda; The University of Tokyo        | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:30 AM<br>11:45 AM | <b>Occlusion-Aware Optical RSO Tracking via Uncertainty-Quantified Deep Learning for Celestial Navigation</b><br>Paper 671   Saikrishna Manojkumar; Massachusetts Institute of Technology | <input type="checkbox"/> : Attend<br>☆: Priority |

## Orbital Dynamics, Perturbations, and Stability

10:30 AM - 12:00 PM | Session Chair(s): Patrick Kelly - Session Chairs | Room: Sutcliffe B

|                      |                                                                                                                                                                                                                 |                                                  |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 10:30 AM<br>10:45 AM | <b>First-Exit Times For LEO Station Keeping Under Atmospheric Density Uncertainty</b><br>Paper 664   Nijanthan Vasudevan; West Virginia University                                                              | <input type="checkbox"/> : Attend<br>☆: Priority |
| 10:45 AM<br>11:00 AM | <b>TRANSPORT CORRIDORS FOR LOW-ALTITUDE ACCESS NEAR ENCELADUS' SOUTH POLAR REGION IN THE PERTURBED SATURN-ENCELADUS CR3BP</b><br>Paper 668   Leonardo Ociel Espinoza Zepeda; University of California San Diego | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:00 AM<br>11:15 AM | <b>Homotopy integration solution to the perturbed orbital boundary value problem</b><br>Paper 701   Liam Healy; Naval Research Laboratory                                                                       | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:15 AM<br>11:30 AM | <b>Impact of Dynamical Mismodelling on the In-flight Calibration of NASA's ACS3 Solar Sail</b><br>Paper 744   Andrea Minervino Amodio; Delft University of Technology                                           | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:30 AM<br>11:45 AM | <b>Characterization of Lunar Escape Trajectories in the Bi-Circular Restricted Four-Body Problem</b><br>Paper 902   Takayuki Shihara; The University of Tokyo                                                   | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:45 AM<br>12:00 PM | <b>The Effect of Untargeted Moons on Resonant Orbit Structure Between Titan and Rhea</b><br>Paper 1023   Bhanu Kumar; University of Michigan                                                                    | <input type="checkbox"/> : Attend<br>☆: Priority |

## Trajectory Design and Optimization VIII

01:15 PM - 03:00 PM | Session Chair(s): Daniel Owen - Session Chairs | Room: Mt Currie North

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|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 01:15 PM<br>01:30 PM | <b>Optimizing High-Fidelity Multiple-Gravity Assist Trajectories in GMAT</b><br>Paper 635   Alexander Davis; Iowa State University                                                           | <input type="checkbox"/> : Attend<br>☆: Priority |
| 01:30 PM<br>01:45 PM | <b>Parameterization of NEP Trajectories for Outer Solar System Science Missions</b><br>Paper 805   Annabella Shaffer; Analytical Mechanics Associates                                        | <input type="checkbox"/> : Attend<br>☆: Priority |
| 01:45 PM<br>02:00 PM | <b>Asteroid Flyby Cyclor Trajectories via Solar Sailing</b><br>Paper 1012   Yuki Takao; Yokohama National University                                                                         | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:00 PM<br>02:15 PM | <b>Trajectory Optimisation with Attitude Feasibility Constraints for Solar Sailcraft Kinetic Impactor Missions</b><br>Paper 768   Fabienne Seibert; FH Aachen University of Applied Sciences | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:15 PM<br>02:30 PM | <b>Characterization of Multi-Revolution Circular-to-Circular Solar-Sail Transfers Around Planets</b><br>Paper 649   Fernando Gámez Losada; Delft University of Technology                    | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:30 PM<br>02:45 PM | <b>Stellar Observation Scheduling Optimization for Distributed Space Interferometry Missions</b><br>Paper 850   Ethan Foss; Stanford University                                              | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:45 PM<br>03:00 PM | <b>ESCAPADE: Navigating the L2 Loiter Phase</b><br>Paper 924   Jeff Parker; Advanced Space, LLC                                                                                              | <input type="checkbox"/> : Attend<br>☆: Priority |

## Machine Learning and Artificial Intelligence Applied to Spaceflight V

01:15 PM - 03:00 PM | Session Chair(s): Atri Dutta - Session Chairs | Room: Mt Currie South

|                      |                                                                                                                                                                                                               |                                                  |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 01:15 PM<br>01:30 PM | <b>Autonomous Rendezvous and Docking of Flexible Spacecrafts via Reinforcement Learning</b><br>Paper 776   Matteo Giannitti; Università degli studi di Roma La Sapienza                                       | <input type="checkbox"/> : Attend<br>☆: Priority |
| 01:30 PM<br>01:45 PM | <b>Reconstruction-Driven Reinforcement Learning for Autonomous Satellite Inspection with Gaussian Splatting</b><br>Paper 962   Logan Selph; University of Maryland - College Park                             | <input type="checkbox"/> : Attend<br>☆: Priority |
| 01:45 PM<br>02:00 PM | <b>Unseen Model-based Pose Estimation and Hardware Testing for Uncooperative Spacecraft with Monocular Vision</b><br>Paper 885   Andrew Martin; University of Texas at Austin                                 | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:00 PM<br>02:15 PM | <b>DreamSat-Pose: Spacecraft Pose Estimation from Single-View 3D Reconstructions and Learned 2D-3D Feature Matching</b><br>Paper 790   Minduli Charithma Wijayatunga; University of Illinois Urbana-Champaign | <input type="checkbox"/> : Attend<br>☆: Priority |

## Machine Learning and Artificial Intelligence Applied to Spaceflight V

01:15 PM - 03:00 PM | Session Chair(s): Atri Dutta - Session Chairs | Room: Mt Currie South

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|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 02:15 PM<br>02:30 PM | <b>Spacecraft Rendezvous Trajectory Generation with Modular Constraints via Diffusion Model Composition</b><br>Paper 777   Mariko Storey-Matsutani; Massachusetts Institute of Technology | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:30 PM<br>02:45 PM | <b>Transformer-based Light Curve Inversion for Spacecraft Attitude Classification and Estimation from Photometric Data</b><br>Paper 719   Luca Ramponi; The University of Arizona         | <input type="checkbox"/> : Attend<br>☆: Priority |

## Space Situational Awareness, Conjunction Analysis, and Collision Avoidance III

01:15 PM - 03:00 PM | Session Chair(s): Siamak Hesar - Session Chairs | Room: Sutcliffe A

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|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 01:15 PM<br>01:30 PM | <b>Exact Analytic Comparison Between Threshold p-Values and Collision Probability in Isotropic Short-Term Encounters</b><br>Paper 779   Riccardo Fasanella; LAAS-CNRS | <input type="checkbox"/> : Attend<br>☆: Priority |
| 01:30 PM<br>01:45 PM | <b>Orbital Collision Risk Growth due to Space Object Catalog Growth and Evolution</b><br>Paper 717   Nicholas Ravago; Omitron, Inc.                                   | <input type="checkbox"/> : Attend<br>☆: Priority |
| 01:45 PM<br>02:00 PM | <b>Beyond the CUBE: Overlapping Grid Methods for Debris Collision Risk Assessment</b><br>Paper 881   Simone Servadio; Iowa State University                           | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:00 PM<br>02:15 PM | <b>Synthetic Conjunction Generation Using Time-Offset Close Approaches for Risk Metric Evaluation</b><br>Paper 696   Eliot Toumey; Omitron, Inc.                      | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:15 PM<br>02:30 PM | <b>Neural Surrogates for Time-of-Closest-Approach Prediction in Orbital Encounter Screening</b><br>Paper 871   Emma Pignacca; Delft University of Technology          | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:30 PM<br>02:45 PM | <b>Efficient Propagation and Integration of Coupled Orbit-Attitude Dynamics for Orbital Decay</b><br>Paper 872   Emma Pignacca; Delft University of Technology        | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:45 PM<br>03:00 PM | <b>Multivariate Methods For Uncertainty Quantification With Stochastic Models</b><br>Paper 959   Gerardo Josue Rivera Santos; West Virginia University                | <input type="checkbox"/> : Attend<br>☆: Priority |

## Dynamical Systems Theory Applied to Spaceflight Problems III

01:15 PM - 03:00 PM | Session Chair(s): Mai Bando - Session Chairs | Room: Sutcliffe B

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|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 01:15 PM<br>01:30 PM | <b>Exploiting Hamiltonian Pseudo-Invariants for Cislunar Initial Orbit Determination</b><br>Paper 852   Vivek Verma; The Pennsylvania State University                                               | <input type="checkbox"/> : Attend<br>☆: Priority |
| 01:30 PM<br>01:45 PM | <b>Anatomical Analysis of Orbit-Chain Trajectories in the Earth-Moon System</b><br>Paper 874   Ricardo Gomez; Purdue University                                                                      | <input type="checkbox"/> : Attend<br>☆: Priority |
| 01:45 PM<br>02:00 PM | <b>Hybrid MPC-OGY Control for Transport Between Invariant Structures with Application to Keplerian Maps</b><br>Paper 802   Dirk Luchtenburg; The Cooper Union for the Advancement of Science and Art | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:00 PM<br>02:15 PM | <b>AN EFFICIENT ILQR ALGORITHM FOR OPTIMAL CONTROL WITH BOUNDED STATES AND INPUTS: APPLICATION TO SPACECRAFT MANEUVERS</b><br>Paper 941   FNU Abhijeet; Texas A&M University                         | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:15 PM<br>02:30 PM | <b>Ballistic Capture Boundaries via Objective Lagrangian Coherent Structures</b><br>Paper 778   Alejandro Gonzalez Machado; University of Southampton                                                | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:30 PM<br>02:45 PM | <b>Spacecraft Backsubstitution Dynamics for Generalized Rigid Body Component Motion</b><br>Paper 796   Leah Kiner; University of Colorado Boulder                                                    | <input type="checkbox"/> : Attend<br>☆: Priority |
| 02:45 PM<br>03:00 PM | <b>A COMPARISON OF FINITE ELEMENT MODEL TRANSITION METHODS FOR LAUNCH VEHICLE FLEX SIMULATION</b><br>Paper 692   Wei Wu; NASA -MSFC Amentum                                                          | <input type="checkbox"/> : Attend<br>☆: Priority |

## Trajectory Design and Optimization IX

03:30 PM - 05:00 PM | Session Chair(s): Bryan Cline - Session Chairs | Room: Mt Currie North

|                      |                                                                                                                                                                        |                                                  |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 03:30 PM<br>03:45 PM | <b>Mars Reconnaissance Orbiter Maneuver Strategy Through 20 Years of Science Operations</b><br>Paper 669   Sean Wagner; Jet Propulsion Laboratory                      | <input type="checkbox"/> : Attend<br>☆: Priority |
| 03:45 PM<br>04:00 PM | <b>Trajectory Dispersion Analysis for the IM-3 and LDN-1 Missions</b><br>Paper 813   James Moore; Intuitive Machines                                                   | <input type="checkbox"/> : Attend<br>☆: Priority |
| 04:00 PM<br>04:15 PM | <b>Automatically Generating Trajectories for a Distributed Spacecraft Mission in a Multi-Body System</b><br>Paper 759   Cole Gillespie; University of Colorado Boulder | <input type="checkbox"/> : Attend<br>☆: Priority |
| 04:15 PM<br>04:30 PM | <b>Updates to SNOPT in STK Astrogator - Part 1</b><br>Paper 785   Logan Johnson; AGI                                                                                   | <input type="checkbox"/> : Attend<br>☆: Priority |
| 04:30 PM<br>04:45 PM | <b>Evaluation of High Inclination Jupiter Flybys to Reach Trans-Neptunian Objects</b><br>Paper 894   Caleb Collins; University of Tennessee, Knoxville                 | <input type="checkbox"/> : Attend<br>☆: Priority |
| 04:45 PM<br>05:00 PM | <b>Frequent Maneuver Designs and Automation: A Sustainable Approach for NISAR Orbit Maintenance</b><br>Paper 801   Sean Wagner; Jet Propulsion Laboratory              | <input type="checkbox"/> : Attend<br>☆: Priority |

## Orbital Debris and Space Environment III

03:30 PM - 05:00 PM | Session Chair(s): Ciara McGrath - Session Chairs | Room: Mt Currie South

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|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 03:30 PM<br>03:45 PM | <b>Examining Spherical Drag Coefficient Theory Accuracy Using ANDE-2 Satellite Decay</b><br>Paper 901   Craig McLaughlin; University of Kansas Aerospace Engineering              | <input type="checkbox"/> : Attend<br>☆: Priority |
| 03:45 PM<br>04:00 PM | <b>Aerodynamic Modeling and Analysis of a Paddlewheel CubeSat Using the ADBSat Toolkit</b><br>Paper 857   Anchal Patel; University of Kansas                                      | <input type="checkbox"/> : Attend<br>☆: Priority |
| 04:00 PM<br>04:15 PM | <b>Hierarchical Deep Reinforcement Learning-Controlled Space-Based Lasers for Debris Remediation and Collision Avoidance</b><br>Paper 838   Gavin Baker; West Virginia University | <input type="checkbox"/> : Attend<br>☆: Priority |
| 04:15 PM<br>04:30 PM | <b>Generational Evolution of Explosion Probability: Investigating the Influence of Mitigation Measures</b><br>Paper 821   Wiebke Retagne; Politecnico di Milano                   | <input type="checkbox"/> : Attend<br>☆: Priority |
| 04:30 PM<br>04:45 PM | <b>Using Electrostatic Torques to Manage Spacecraft Momentum Between Charged Spacecraft with Uncertain Geometry</b><br>Paper 891   James Walker; University of Colorado-Boulder   | <input type="checkbox"/> : Attend<br>☆: Priority |
| 04:45 PM<br>05:00 PM | <b>Multi-hypothesis Sensor Fusion with an Epistemic Kernel Mixture Filter</b><br>Paper 775   Pietro De Marchi; University of Strathclyde                                          | <input type="checkbox"/> : Attend<br>☆: Priority |

## Special Session: Emirates Mission to the Asteroid Belt (EMA)

03:30 PM - 04:15 PM | Session Chair(s): Jeff Parker - Session Chairs | Room: Sutcliffe A

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|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 03:30 PM<br>03:45 PM | <b>Cruise Navigation Planning and Analysis for the Emirates Mission to Explore the Asteroid Belt</b><br>Paper 630   Nicholas Bradley; Advanced Space, LLC               | <input type="checkbox"/> : Attend<br>☆: Priority |
| 03:45 PM<br>04:00 PM | <b>Mission Design for the Justitia Proximity Operations Phase of the Emirates Mission to the Asteroid Belt</b><br>Paper 1033   Daniel Owen; Advanced Space              | <input type="checkbox"/> : Attend<br>☆: Priority |
| 04:00 PM<br>04:15 PM | <b>Optical Navigation for EMA Flybys: Photometric Modeling and Centerfinding Performance Analysis</b><br>Paper 1039   Reem Klaib; Technology Innovation Institute (TII) | <input type="checkbox"/> : Attend<br>☆: Priority |

## In-space Assembly, Manufacturing, and Space Robotics

03:30 PM - 05:00 PM | Session Chair(s): Hang Woon Lee - Session Chairs | Room: Sutcliffe B

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|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 03:30 PM<br>03:45 PM | <b>A Cascaded Control Architecture for Spacecraft with Arm-Mounted Thrusters using Reaction Torque Compensation</b><br>Paper 749   William Schwend; University of Colorado Boulder          | <input type="checkbox"/> : Attend<br>☆: Priority |
| 03:45 PM<br>04:00 PM | <b>Hub Reaction Torque Reduction for Spacecraft Control Using Robotic Arm-Mounted Thrusters</b><br>Paper 693   William Schwend; University of Colorado Boulder                              | <input type="checkbox"/> : Attend<br>☆: Priority |
| 04:00 PM<br>04:15 PM | <b>Multi-Axis Selective Decoupling Framework for Free-Floating Space Manipulators</b><br>Paper 723   Donghoon Kim; University of Cincinnati                                                 | <input type="checkbox"/> : Attend<br>☆: Priority |
| 04:15 PM<br>04:30 PM | <b>Experimental and Simulation-based Evaluation of Wrench-driven Free-floating Motion Emulation Using A UR10E Manipulator</b><br>Paper 886   Mohammad Alizadeh; York University             | <input type="checkbox"/> : Attend<br>☆: Priority |
| 04:30 PM<br>04:45 PM | <b>PREDICTIVE 2D CFD MODELING OF MELT-POOL EVOLUTION AND CONVECTIVE TRANSPORT IN WIRE-FEED LASER METAL DEPOSITION FOR SPACE CONDITIONS</b><br>Paper 892   Mitra Taghizadeh; York University | <input type="checkbox"/> : Attend<br>☆: Priority |

## Special Session: Space Weather Observations at L1 to Advance Readiness-1 (SOLAR-1)

04:15 PM - 05:00 PM | Session Chair(s): Ariadna Farres - Session Chairs | Room: Sutcliffe A

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|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 04:15 PM<br>04:30 PM | <b>Navigating SOLAR-1: Launch Through Early Orbit Operations</b><br>Paper 695   Sarah Sours; Omitron, Inc.                                                                               | <input type="checkbox"/> : Attend<br>☆: Priority |
| 04:30 PM<br>04:45 PM | <b>Space Weather Observations at L1 to Advance Readiness - 1 (SOLAR-1) Mission Maneuver Support Operations Results and Experiences</b><br>Paper 651   Adam Michaels; Advanced Space, LLC | <input type="checkbox"/> : Attend<br>☆: Priority |
| 04:45 PM<br>05:00 PM | <b>Contingency Analyses of the Lissajous Orbit Insertion strategy for the SOLAR-1 Mission</b><br>Paper 643   Ariadna Farres; University of Maryland Baltimore County                     | <input type="checkbox"/> : Attend<br>☆: Priority |

Thursday, July 30, 2026

## Cislunar Astrodynamics V

08:00 AM - 10:00 AM | Session Chair(s): Riley Fitzgerald - Session Chairs | Room: Mt Currie North

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|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| 08:00 AM<br>08:15 AM | <b>Hamiltonian Normal Forms of the Photogravitational Elliptic Restricted Three-Body Problem</b><br>Paper 998   Carson Hunsberger; The Pennsylvania State University                                          | <input type="checkbox"/> Attend<br>☆: Priority |
| 08:15 AM<br>08:30 AM | <b>Heteroclinic Connections in the Elliptic Restricted Three-Body Problem</b><br>Paper 936   Damennick Henry; University of Minnesota Twin Cities                                                             | <input type="checkbox"/> Attend<br>☆: Priority |
| 08:30 AM<br>08:45 AM | <b>A PSEUDO FLIGHT PATH ANGLE FOR FINDING PERIODIC ORBITS IN THE CIRCULAR RESTRICTED THREE-BODY PROBLEM</b><br>Paper 1029   Nicole Weeden; University of Central Florida                                      | <input type="checkbox"/> Attend<br>☆: Priority |
| 08:45 AM<br>09:00 AM | <b>Minimum Impulse Lunar Departure Analysis via Indirect Optimization Methods in the Earth-Moon Circular Restricted Three-Body Problem</b><br>Paper 1005   Alexander Liberman; University of Colorado Boulder | <input type="checkbox"/> Attend<br>☆: Priority |
| 09:00 AM<br>09:15 AM | <b>Observation Scheduling for Cislunar Navigation Using Hamiltonian Normal Form Coordinates</b><br>Paper 943   Andrew Glenn; Pennsylvania State University                                                    | <input type="checkbox"/> Attend<br>☆: Priority |
| 09:15 AM<br>09:30 AM | <b>Leveraging Normal Form Orbital Elements for Optimal Transfer Design Across Cislunar Space</b><br>Paper 667   Kaushik Rajendran; Purdue University                                                          | <input type="checkbox"/> Attend<br>☆: Priority |

## Spacecraft Guidance, Navigation and Control (GNC) IV

08:00 AM - 10:00 AM | Session Chair(s): Andrew Goetz - Session Chairs | Room: Mt Currie South

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|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| 08:00 AM<br>08:15 AM | <b>Autonomous Guidance, Navigation, and Control of Lunar Transfer Trajectories via Relative Measurements</b><br>Paper 1018   Evan Lutchmidat; Virginia Polytechnic Institute                          | <input type="checkbox"/> Attend<br>☆: Priority |
| 08:15 AM<br>08:30 AM | <b>Fault Resilient Guidance and Control Design in Autonomous Landing Sequencer for Chandrayaan-3 Lunar Powered descent</b><br>Paper 842   CHIRANJIB GUHA MAJUMDER; Indian Space Research Organization | <input type="checkbox"/> Attend<br>☆: Priority |
| 08:30 AM<br>08:45 AM | <b>On Analytical Quadratic Guidance for Fine Braking Phase during Powered descent of Lunar Landing Mission</b><br>Paper 863   CHIRANJIB GUHA MAJUMDER; Indian Space Research Organization             | <input type="checkbox"/> Attend<br>☆: Priority |
| 08:45 AM<br>09:00 AM | <b>Constrained Distributionally Robust Control for Spacecraft Powered Descent</b><br>Paper 1038   Zachary Donovan; University of Colorado Boulder                                                     | <input type="checkbox"/> Attend<br>☆: Priority |
| 09:00 AM<br>09:15 AM | <b>EVENT CAMERA DATASETS FOR LUNAR DESCENT AND PROXIMITY OPERATIONS TRAJECTORIES</b><br>Paper 677   Sofia Catalan; The University of Texas at Austin                                                  | <input type="checkbox"/> Attend<br>☆: Priority |
| 09:15 AM<br>09:30 AM | <b>Model Predictive Control with Feedback of Computational States for Satellite Rendezvous and Proximity Operations</b><br>Paper 845   Christopher Petersen; University of Florida                    | <input type="checkbox"/> Attend<br>☆: Priority |
| 09:30 AM<br>09:45 AM | <b>Linear Control of Spacecraft Formation Flying About J2-Invariant Orbits with Stationary Error Distributions</b><br>Paper 670   Taritri Bhattacharjee; The Pennsylvania State University            | <input type="checkbox"/> Attend<br>☆: Priority |

## Trajectory Design and Optimization X

08:00 AM - 10:00 AM | Session Chair(s): Jeff Parker - Session Chairs | Room: Sutcliffe A

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|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| 08:00 AM<br>08:15 AM | <b>MASTO: Missed Thrust-Aware Stochastic Trajectory Optimization</b><br>Paper 907   Shaurya Shrivastava; Purdue University                                                    | <input type="checkbox"/> Attend<br>☆: Priority |
| 08:15 AM<br>08:30 AM | <b>Reachability-Based Missed Thrust Analysis of Final Targeting Sequence</b><br>Paper 653   Robyn Natherson; University of Colorado, Boulder                                  | <input type="checkbox"/> Attend<br>☆: Priority |
| 08:30 AM<br>08:45 AM | <b>Non-Convex Reachable-Set-Based Robust Trajectory Design for Missed Thrust Events</b><br>Paper 926   Yusuke Arai; Institute of Science Tokyo                                | <input type="checkbox"/> Attend<br>☆: Priority |
| 08:45 AM<br>09:00 AM | <b>Trajectory Design using Lossless Convex Guidance for Lunar Powered Descent</b><br>Paper 792   Zachary May; NASA Langley Research Center, Vehicle Analysis Branch           | <input type="checkbox"/> Attend<br>☆: Priority |
| 09:00 AM<br>09:15 AM | <b>Artemis II Trans-Lunar Injection Aborts Trajectory Design and Optimization</b><br>Paper 816   Victor Yu; Amentum                                                           | <input type="checkbox"/> Attend<br>☆: Priority |
| 09:15 AM<br>09:30 AM | <b>Preliminary Trajectory Design of The Lazuli Space Observatory</b><br>Paper 793   James McElreath; Space Exploration Engineering                                            | <input type="checkbox"/> Attend<br>☆: Priority |
| 09:30 AM<br>09:45 AM | <b>TRANSFER TRAJECTORY FOR EFFICIENT PAYLOAD TRANSPORTATION USING REUSABLE OTV IN CIS-LUNAR SPACE</b><br>Paper 889   Junji Kikuchi; Japan Aerospace Exploration Agency (JAXA) | <input type="checkbox"/> Attend<br>☆: Priority |

## Orbit Determination and Estimation IV

08:00 AM - 10:00 AM | Session Chair(s): Nicholas Bradley - Session Chairs | Room: Sutcliffe B

## Orbit Determination and Estimation IV

08:00 AM - 10:00 AM | Session Chair(s): Nicholas Bradley - Session Chairs | Room: Sutcliffe B

|                      |                                                                                                                                                                    |                                                |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| 08:00 AM<br>08:15 AM | <b>Efficient Posterior Sampling for Small-Body Orbit Determination</b><br>Paper 611   Giovanni Fereoli; University of Colorado Boulder                             | <input type="checkbox"/> Attend<br>☆: Priority |
| 08:15 AM<br>08:30 AM | <b>Gaussianity Validity and Hybrid Estimation in the Circular Restricted Three-Body Problem</b><br>Paper 618   Benjamin Hanson; University of California San Diego | <input type="checkbox"/> Attend<br>☆: Priority |
| 08:30 AM<br>08:45 AM | <b>Uncertainties in aerodynamic coefficients obtained using orbit determination methods.</b><br>Paper 833   Jawaria Nadeem; The University of Manchester           | <input type="checkbox"/> Attend<br>☆: Priority |
| 08:45 AM<br>09:00 AM | <b>Semi-Supervised Diagnosis of Orbit Determination Anomalies for Mars Orbiters</b><br>Paper 748   Justin Mansell; Caltech Jet Propulsion Laboratory               | <input type="checkbox"/> Attend<br>☆: Priority |
| 09:00 AM<br>09:15 AM | <b>Passive 3-Way Doppler Orbit Determination of Blue Ghost Mission 1</b><br>Paper 848   Ryan Lebois; Space Exploration Engineering                                 | <input type="checkbox"/> Attend<br>☆: Priority |
| 09:15 AM<br>09:30 AM | <b>Physics-informed Transformer based Neural Operator for xGEO Initial Orbit Determination</b><br>Paper 705   Komal Gupta; The University of Arizona               | <input type="checkbox"/> Attend<br>☆: Priority |
| 09:30 AM<br>09:45 AM | <b>Estimating Harmonic Coefficients of Asteroids through LiAISON Navigation</b><br>Paper 685   Jun Maruyama; Iowa State University                                 | <input type="checkbox"/> Attend<br>☆: Priority |
| 09:45 AM<br>10:00 AM | <b>AN ALTERNATE NAVIGATION IMPLEMENTATION FOR PARKER SOLAR PROBE</b><br>Paper 986   Fazle Siddique; Johns Hopkins University Applied Physics Laboratory            | <input type="checkbox"/> Attend<br>☆: Priority |

## Cislunar Astrodynamics VI

10:30 AM - 12:00 PM | Session Chair(s): Kathleen Howell - Session Chairs | Room: Mt Currie North

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|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| 10:30 AM<br>10:45 AM | <b>A Geometrically-Informed Design Approach for Synodic-Resonant cislunar SSA constellations</b><br>Paper 628   Noah Sadaka; Purdue University                     | <input type="checkbox"/> Attend<br>☆: Priority |
| 10:45 AM<br>11:00 AM | <b>Implementation &amp; Analysis of a Lunar Geopotential Model Using a Polyhedron Grid</b><br>Paper 690   Gregory Eslinger; Massachusetts Institute of Technology  | <input type="checkbox"/> Attend<br>☆: Priority |
| 11:00 AM<br>11:15 AM | <b>Dynamical Classification of Chaotic Cislunar Trajectories via Resonance Structure</b><br>Paper 714   Amelie Lutz; Virginia Tech                                 | <input type="checkbox"/> Attend<br>☆: Priority |
| 11:15 AM<br>11:30 AM | <b>PHYSICS-INFORMED REINFORCEMENT LEARNING FOR NEAR-RECTILINEAR HALO ORBIT MANEUVERING</b><br>Paper 807   Junette Hsin; UT Austin                                  | <input type="checkbox"/> Attend<br>☆: Priority |
| 11:30 AM<br>11:45 AM | <b>Ballistic Trajectories from the Triangular Libration Points to the Moon</b><br>Paper 927   Collin Gentry; Missouri University of Science and Technology         | <input type="checkbox"/> Attend<br>☆: Priority |
| 11:45 AM<br>12:00 PM | <b>Collaborative Navigation of a Lunar PNT Constellation Subject To GNSS Outage</b><br>Paper 750   Ryan Olson; Johns Hopkins University Applied Physics Laboratory | <input type="checkbox"/> Attend<br>☆: Priority |

## Spacecraft Guidance, Navigation and Control (GNC) V

10:30 AM - 12:00 PM | Session Chair(s): Isaac Chairez - Session Chairs | Room: Mt Currie South

|                      |                                                                                                                                                         |                                                |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| 10:30 AM<br>10:45 AM | <b>A New Robust Filter To Process Multivariate Measurements With Heavy-Tailed Noise</b><br>Paper 660   James McCabe; NASA Johnson Space Center          | <input type="checkbox"/> Attend<br>☆: Priority |
| 10:45 AM<br>11:00 AM | <b>THE SQUARE-ROOT REPRODUCING KERNEL HILBERT SPACE UNSCENTED KALMAN FILTER</b><br>Paper 1007   Alberto Zamora; Texas A&M University                    | <input type="checkbox"/> Attend<br>☆: Priority |
| 11:00 AM<br>11:15 AM | <b>Two Decades Orbiting Mars: Navigating the Mars Reconnaissance Orbiter Through The Extended Missions</b><br>Paper 638   Premkumar Menon; NASA/JPL     | <input type="checkbox"/> Attend<br>☆: Priority |
| 11:15 AM<br>11:30 AM | <b>Navigation and Maneuver Planning Results from the autoNGC CAPSTONE Flight Test</b><br>Paper 703   Robert Pritchett; NASA Goddard Space Flight Center | <input type="checkbox"/> Attend<br>☆: Priority |
| 11:30 AM<br>11:45 AM | <b>Remote Guidance of a Mothership-Daughtership Formation for Asteroid Exploration</b><br>Paper 783   Logan Feld; Georgia Institute of Technology       | <input type="checkbox"/> Attend<br>☆: Priority |
| 11:45 AM<br>12:00 PM | <b>Imaging Guidance for Earth Observation Satellites: High Precision Analytical Approach</b><br>Paper 897   Gaurav Kumar; Pixxel                        | <input type="checkbox"/> Attend<br>☆: Priority |

## Rendezvous, Relative Motion, and Proximity Operations III

10:30 AM - 12:00 PM | Session Chair(s): Simone Servadio - Session Chairs | Room: Sutcliffe A

|                      |                                                                                                                                                                   |                                                |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| 10:30 AM<br>10:45 AM | <b>Passively Safe Convex Guidance for Cislunar Rendezvous and Proximity Operations</b><br>Paper 756   Ian Down; Advanced Space                                    | <input type="checkbox"/> Attend<br>☆: Priority |
| 10:45 AM<br>11:00 AM | <b>End-to-End Closed-Loop Rendezvous and Proximity Operations Performance for the CAPSTONE 02 Mission</b><br>Paper 864   Connor Plaks; Advanced Space             | <input type="checkbox"/> Attend<br>☆: Priority |
| 11:00 AM<br>11:15 AM | <b>Distributed Navigation Strategies for Multi-Agent Proximity Operations Around Uncooperative Targets</b><br>Paper 741   Matteo Capitanio; Politecnico di Milano | <input type="checkbox"/> Attend<br>☆: Priority |

## Rendezvous, Relative Motion, and Proximity Operations III

10:30 AM - 12:00 PM | Session Chair(s): Simone Servadio - Session Chairs | Room: Sutcliffe A

|                      |                                                                                                                                                                                   |                                                  |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 11:15 AM<br>11:30 AM | <b>Geometric Orbit Design for Long-Term Passive Abort Safety in Three-Spacecraft Formation Flying</b><br>Paper 606   Taisei Nishishita; Japan Aerospace Exploration Agency (JAXA) | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:30 AM<br>11:45 AM | <b>LQR Design for Formation Flying Near Halo Orbits Exploiting Quasi-Periodic Symmetry in Toroidal Coordinates</b><br>Paper 844   Joaquin G. Lopez-Cepero; University of Seville  | <input type="checkbox"/> : Attend<br>☆: Priority |

## Dynamical Systems Theory Applied to Spaceflight Problems IV

10:30 AM - 12:00 PM | Session Chair(s): Nicola Baresi - Session Chairs | Room: Sutcliffe B

|                      |                                                                                                                                                               |                                                  |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 10:30 AM<br>10:45 AM | <b>Preserving Symplectic Structure in Higher Order Expansions of Relative Flow</b><br>Paper 795   David Cunningham; Odyssey Space Research, LLC               | <input type="checkbox"/> : Attend<br>☆: Priority |
| 10:45 AM<br>11:00 AM | <b>Geometry-Informed Estimation Truncation Order Using Edgeworth Series Expansions</b><br>Paper 809   Oliver Boodram; University of Colorado Boulder          | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:00 AM<br>11:15 AM | <b>Applications of the Weighted Birkhoff Average in Astrodynamics</b><br>Paper 932   Addisyn Randolph; Florida Atlantic University                            | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:15 AM<br>11:30 AM | <b>A Framework for Long-Term Earth-Moon Debris Propagation</b><br>Paper 1042   Jack Sydney Schwartz; Princeton University                                     | <input type="checkbox"/> : Attend<br>☆: Priority |
| 11:30 AM<br>11:45 AM | <b>Comparative Analysis of Simplified Gravitational Models for Irregular Elongated Bodies</b><br>Paper 997   Alec Verdi; Embry-Riddle Aeronautical University | <input type="checkbox"/> : Attend<br>☆: Priority |

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| Abhijeet         | FNU          | 941   | Dynamical Systems Theory Applied to Spaceflight Problems III            | Wednesday   | 2:00 PM           |
| Alizadeh         | Mohammad     | 886   | In-space Assembly, Manufacturing, and Space Robotics                    | Wednesday   | 4:15 PM           |
| Almanza-Soto     | Juan-Pablo   | 955   | Dynamical Systems Theory Applied to Spaceflight Problems II             | Tuesday     | 2:00 PM           |
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| Bauer            | Simon        | 947   | Machine Learning and Artificial Intelligence Applied to Spaceflight II  | Monday      | 2:00 PM           |
| Bhattacharjee    | Ovijit       | 1040  | Orbit Determination and Estimation I                                    | Monday      | 8:30 AM           |
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| Bire             | Aniket       | 1015  | Trajectory Design and Optimization V                                    | Tuesday     | 2:00 PM           |
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| Brandenburg      | William      | 882   | Asteroid and Interplanetary Mission Design                              | Tuesday     | 4:00 PM           |
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| Hsin        | Junette    | 807   | Cislunar Astrodynamics VI                                                     | Thursday    | 11:15 AM          |
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| Komachi     | Saki       | 689   | Asteroid and Interplanetary Mission Design                                    | Tuesday     | 3:45 PM           |
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| Lee         | Jiwon      | 764   | Spacecraft Guidance, Navigation and Control (GNC) III                         | Wednesday   | 9:30 AM           |
| Lee         | Robert Y.  | 730   | Dynamical Systems Theory Applied to Spaceflight Problems II                   | Tuesday     | 1:45 PM           |
| Leith       | James      | 1008  | Cislunar Astrodynamics II                                                     | Tuesday     | 8:00 AM           |
| Liao        | Aaron      | 835   | Orbit Determination and Estimation II                                         | Tuesday     | 9:00 AM           |
| Liao        | Fang       | 767   | Spacecraft Guidance, Navigation and Control (GNC) II                          | Tuesday     | 8:00 AM           |
| Liberman    | Alexander  | 1005  | Cislunar Astrodynamics V                                                      | Thursday    | 8:45 AM           |
| Lifset      | Noah       | 994   | Trajectory Design and Optimization II                                         | Monday      | 11:30 AM          |
| Lim         | Jeongwoo   | 905   | Rendezvous, Relative Motion, and Proximity Operations II                      | Tuesday     | 11:15 AM          |
| Lin         | Jiashu     | 817   | Orbital Debris and Space Environment II                                       | Wednesday   | 11:30 AM          |
| Lin         | shengyu    | 732   | Poster Session                                                                | Tuesday     | 3:30 PM           |
| Litteri     | Walther    | 875   | Machine Learning and Artificial Intelligence Applied to Spaceflight IV        | Tuesday     | 2:00 PM           |
| Luchtenburg | Dirk       | 802   | Dynamical Systems Theory Applied to Spaceflight Problems III                  | Wednesday   | 1:45 PM           |
| Lundin      | Gabriel    | 900   | Cislunar Astrodynamics IV                                                     | Wednesday   | 8:30 AM           |

| Last Name        | First Name | Paper | Session Name                                                                        | Session Day | Presentation Time |
|------------------|------------|-------|-------------------------------------------------------------------------------------|-------------|-------------------|
| Lutchmidat       | Evan       | 1018  | Spacecraft Guidance, Navigation and Control (GNC) IV                                | Thursday    | 8:00 AM           |
| Lutz             | Amelie     | 714   | Cislunar Astrodynamics VI                                                           | Thursday    | 11:00 AM          |
| Lyss-Loren       | Isaac      | 686   | Dynamical Systems Theory Applied to Spaceflight Problems I                          | Monday      | 2:15 PM           |
| Lyss-Loren       | Isaac      | 736   | Poster Session                                                                      | Tuesday     | 3:30 PM           |
| Ma               | Xinhai     | 903   | Poster Session                                                                      | Tuesday     | 3:30 PM           |
| Manojkumar       | Saikrishna | 671   | Earth Orbital and Planetary Mission Studies                                         | Wednesday   | 11:30 AM          |
| Mansell          | Justin     | 707   | Machine Learning and Artificial Intelligence Applied to Spaceflight IV              | Tuesday     | 2:30 PM           |
| Mansell          | Justin     | 752   | Orbit Determination and Estimation III                                              | Wednesday   | 9:45 AM           |
| Mansell          | Justin     | 748   | Orbit Determination and Estimation IV                                               | Thursday    | 8:45 AM           |
| Manuel           | Walter     | 931   | Machine Learning and Artificial Intelligence Applied to Spaceflight IV              | Tuesday     | 1:45 PM           |
| Martin           | Andrew     | 885   | Machine Learning and Artificial Intelligence Applied to Spaceflight V               | Wednesday   | 1:45 PM           |
| Maruyama         | Jun        | 685   | Orbit Determination and Estimation IV                                               | Thursday    | 9:30 AM           |
| Matousek         | Jakub      | 601   | Orbit Determination and Estimation II                                               | Tuesday     | 8:00 AM           |
| May              | Zachary    | 792   | Trajectory Design and Optimization X                                                | Thursday    | 8:45 AM           |
| McCabe           | James      | 660   | Spacecraft Guidance, Navigation and Control (GNC) V                                 | Thursday    | 10:30 AM          |
| McCarthy         | Brian      | 910   | Cislunar Astrodynamics I                                                            | Monday      | 8:00 AM           |
| McElreath        | James      | 793   | Trajectory Design and Optimization X                                                | Thursday    | 9:15 AM           |
| McGrath          | Ciara      | 678   | Special Session Panel: Extended Reality (XR) and Spatial Computing in Astrodynamics | Monday      | 3:30 PM           |
| McGrew           | Lynn       | 602   | Poster Session                                                                      | Tuesday     | 3:30 PM           |
| McKennon-Kelly   | Ryan       | 830   | Machine Learning and Artificial Intelligence Applied to Spaceflight I               | Monday      | 10:30 AM          |
| McLaughlin       | Craig      | 901   | Orbital Debris and Space Environment III                                            | Wednesday   | 3:30 PM           |
| McLean           | Mitchel    | 876   | Trajectory Design and Optimization VII                                              | Wednesday   | 10:30 AM          |
| Menon            | Premkumar  | 638   | Spacecraft Guidance, Navigation and Control (GNC) V                                 | Thursday    | 11:00 AM          |
| Messner          | Joseph     | 879   | Special Session Panel: Extended Reality (XR) and Spatial Computing in Astrodynamics | Monday      | 3:30 PM           |
| Michaels         | Adam       | 651   | Special Session: Space Weather Observations at L1 to Advance Readiness-1 (SOLAR-1)  | Wednesday   | 4:30 PM           |
| Michelazzi       | Alessandro | 782   | Spacecraft Guidance, Navigation and Control (GNC) II                                | Tuesday     | 8:15 AM           |
| Michelotti       | Niccolò    | 909   | Spacecraft Guidance, Navigation and Control (GNC) I                                 | Monday      | 8:30 AM           |
| Michelotti       | Niccolò    | 911   | Trajectory Design and Optimization IV                                               | Tuesday     | 9:15 AM           |
| Minervino Amodio | Andrea     | 744   | Orbital Dynamics, Perturbations, and Stability                                      | Wednesday   | 11:15 AM          |
| Moon             | Quinn      | 973   | Spacecraft Guidance, Navigation and Control (GNC) I                                 | Monday      | 8:00 AM           |
| Moon             | Quinn      | 970   | Trajectory Design and Optimization VII                                              | Wednesday   | 11:15 AM          |
| Moore            | James      | 813   | Trajectory Design and Optimization IX                                               | Wednesday   | 3:45 PM           |
| Motheram         | Rohan      | 849   | Space Situational Awareness, Conjunction Analysis, and Collision Avoidance II       | Tuesday     | 11:30 AM          |
| Mulder           | Eirik      | 952   | Special Session Panel: Extended Reality (XR) and Spatial Computing in Astrodynamics | Monday      | 3:30 PM           |
| Murray-Cooper    | Mason      | 818   | Space Situational Awareness, Conjunction Analysis, and Collision Avoidance II       | Tuesday     | 11:45 AM          |
| Nadeem           | Jawaria    | 833   | Orbit Determination and Estimation IV                                               | Thursday    | 8:30 AM           |
| Nam              | Yoonho     | 762   | Trajectory Design and Optimization IV                                               | Tuesday     | 9:00 AM           |
| Nam              | Yoonho     | 763   | Trajectory Design and Optimization V                                                | Tuesday     | 2:15 PM           |
| Nassif           | Mohamed    | 1027  | Poster Session                                                                      | Tuesday     | 3:30 PM           |
| Natherson        | Robyn      | 653   | Trajectory Design and Optimization X                                                | Thursday    | 8:15 AM           |
| Nelson           | Quintin    | 1013  | Rendezvous, Relative Motion, and Proximity Operations II                            | Tuesday     | 11:00 AM          |
| Nelson           | Quintin    | 1014  | Satellite Constellations and Formations II                                          | Tuesday     | 3:30 PM           |
| Nicacio          | Sabrina    | 672   | Orbit Determination and Estimation III                                              | Wednesday   | 9:30 AM           |
| Nishishita       | Taisei     | 606   | Rendezvous, Relative Motion, and Proximity Operations III                           | Thursday    | 11:15 AM          |
| Nori             | Aditya     | 1032  | Poster Session                                                                      | Tuesday     | 3:30 PM           |
| Nugent           | Lorin      | 799   | Space Situational Awareness, Conjunction Analysis, and Collision Avoidance I        | Monday      | 1:30 PM           |
| O                | Hosei      | 1046  | Orbit Determination and Estimation II                                               | Tuesday     | 9:15 AM           |
| Oi               | Shunta     | 725   | Dynamical Systems Theory Applied to Spaceflight Problems I                          | Monday      | 1:30 PM           |
| Okada            | Hiroataka  | 854   | Machine Learning and Artificial Intelligence Applied to Spaceflight I               | Monday      | 10:45 AM          |
| Olson            | Ethan      | 746   | Rendezvous, Relative Motion, and Proximity Operations II                            | Tuesday     | 11:45 AM          |
| Olson            | Ryan       | 750   | Cislunar Astrodynamics VI                                                           | Thursday    | 11:45 AM          |
| Omran            | Basel      | 964   | Satellite Constellations and Formations I                                           | Monday      | 3:30 PM           |
| Osorio Fernández | Lucia      | 716   | Trajectory Design and Optimization I                                                | Monday      | 8:15 AM           |
| Owen             | Daniel     | 1033  | Special Session: Emirates Mission to the Asteroid Belt (EMA)                        | Wednesday   | 3:45 PM           |
| Palomo           | Mauro      | 812   | Space Domain Awareness (SDA) and Space Surveillance II                              | Tuesday     | 11:45 AM          |
| Pan              | Shanshan   | 766   | Dynamical Systems Theory Applied to Spaceflight Problems II                         | Tuesday     | 2:45 PM           |
| Paranjape        | Ishan      | 980   | Orbit Determination and Estimation II                                               | Tuesday     | 8:15 AM           |
| Park             | Beom       | 738   | Trajectory Design and Optimization III                                              | Monday      | 2:15 PM           |
| Park             | Woosang    | 625   | Orbit Determination and Estimation I                                                | Monday      | 9:30 AM           |
| Parker           | Jeff       | 924   | Trajectory Design and Optimization VIII                                             | Wednesday   | 2:45 PM           |

| Last Name      | First Name    | Paper | Session Name                                                                        | Session Day | Presentation Time |
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| Patel          | Anchal        | 857   | Orbital Debris and Space Environment III                                            | Wednesday   | 3:45 PM           |
| Pénot          | Jules         | 754   | Satellite Constellations and Formations I                                           | Monday      | 3:45 PM           |
| Petersen       | Christopher   | 845   | Spacecraft Guidance, Navigation and Control (GNC) IV                                | Thursday    | 9:15 AM           |
| Peterson       | Luke          | 791   | Dynamical Systems Theory Applied to Spaceflight Problems I                          | Monday      | 1:15 PM           |
| Phillips       | Sean          | 917   | Machine Learning and Artificial Intelligence Applied to Spaceflight I               | Monday      | 11:00 AM          |
| Pignacca       | Emma          | 846   | Orbital Debris and Space Environment II                                             | Wednesday   | 10:30 AM          |
| Pignacca       | Emma          | 871   | Space Situational Awareness, Conjunction Analysis, and Collision Avoidance III      | Wednesday   | 2:15 PM           |
| Pignacca       | Emma          | 872   | Space Situational Awareness, Conjunction Analysis, and Collision Avoidance III      | Wednesday   | 2:30 PM           |
| Pinho          | Gonçalo       | 912   | Trajectory Design and Optimization I                                                | Monday      | 8:45 AM           |
| Plaks          | Connor        | 864   | Rendezvous, Relative Motion, and Proximity Operations III                           | Thursday    | 10:45 AM          |
| Polli          | Eduardo Maria | 867   | Spacecraft Guidance, Navigation and Control (GNC) III                               | Wednesday   | 8:45 AM           |
| Pritchett      | Robert        | 703   | Spacecraft Guidance, Navigation and Control (GNC) V                                 | Thursday    | 11:15 AM          |
| Puerta Ibarra  | Juan F        | 993   | Orbital Debris and Space Environment I                                              | Monday      | 4:45 PM           |
| Quan           | Stephanie     | 950   | Space Domain Awareness (SDA) and Space Surveillance II                              | Tuesday     | 11:15 AM          |
| Rajendran      | Kaushik       | 667   | Cislunar Astrodynamics V                                                            | Thursday    | 9:15 AM           |
| Ramponi        | Luca          | 719   | Machine Learning and Artificial Intelligence Applied to Spaceflight V               | Wednesday   | 2:30 PM           |
| Randolph       | Addisyn       | 932   | Dynamical Systems Theory Applied to Spaceflight Problems IV                         | Thursday    | 11:00 AM          |
| Ravago         | Nicholas      | 717   | Space Situational Awareness, Conjunction Analysis, and Collision Avoidance III      | Wednesday   | 1:30 PM           |
| Ray            | Vishal        | 1045  | Trajectory Design and Optimization IV                                               | Tuesday     | 8:30 AM           |
| Ray            | Vishal        | 961   | Space Situational Awareness, Conjunction Analysis, and Collision Avoidance II       | Tuesday     | 10:30 AM          |
| Rebollo        | José Antonio  | 861   | Orbit Determination and Estimation II                                               | Tuesday     | 8:30 AM           |
| Retagne        | Wiebke        | 821   | Orbital Debris and Space Environment III                                            | Wednesday   | 4:15 PM           |
| Revilla-Norris | Alyssa        | 979   | Poster Session                                                                      | Tuesday     | 3:30 PM           |
| Rigato         | Andrea        | 784   | Spacecraft Guidance, Navigation and Control (GNC) I                                 | Monday      | 8:45 AM           |
| Rivera Santos  | Gerardo Josue | 960   | Orbit Determination and Estimation III                                              | Wednesday   | 9:00 AM           |
| Rivera Santos  | Gerardo Josue | 959   | Space Situational Awareness, Conjunction Analysis, and Collision Avoidance III      | Wednesday   | 2:45 PM           |
| Roach          | Dylan         | 1009  | Machine Learning and Artificial Intelligence Applied to Spaceflight II              | Monday      | 1:15 PM           |
| Robbiani       | Tommaso       | 745   | Space Situational Awareness, Conjunction Analysis, and Collision Avoidance II       | Tuesday     | 11:15 AM          |
| Robinson       | Liam          | 724   | Space Domain Awareness (SDA) and Space Surveillance I                               | Monday      | 11:00 AM          |
| Robinson       | Liam          | 721   | Orbital Debris and Space Environment I                                              | Monday      | 4:30 PM           |
| Rogers         | Ethan         | 665   | Orbit Determination and Estimation I                                                | Monday      | 8:00 AM           |
| Rose           | Alex          | 631   | Space Situational Awareness, Conjunction Analysis, and Collision Avoidance I        | Monday      | 2:45 PM           |
| Ross           | Shane         | 853   | Cislunar Astrodynamics IV                                                           | Wednesday   | 9:45 AM           |
| Roversi        | Davide        | 718   | Cislunar Astrodynamics II                                                           | Tuesday     | 8:30 AM           |
| Sadaka         | Noah          | 628   | Cislunar Astrodynamics VI                                                           | Thursday    | 10:30 AM          |
| San-Juan       | Juan Félix    | 710   | Machine Learning and Artificial Intelligence Applied to Spaceflight I               | Monday      | 11:30 AM          |
| Sanaga         | Rohith Reddy  | 789   | Cislunar Astrodynamics I                                                            | Monday      | 9:45 AM           |
| Sasaki         | Takahiro      | 788   | Rendezvous, Relative Motion, and Proximity Operations I                             | Monday      | 10:45 AM          |
| Savidge        | Galen         | 619   | Trajectory Design and Optimization II                                               | Monday      | 10:30 AM          |
| Schmitt        | Justin        | 974   | Special Session Panel: Extended Reality (XR) and Spatial Computing in Astrodynamics | Monday      | 3:30 PM           |
| Schmitt        | Justin        | 890   | Cislunar Astrodynamics III                                                          | Tuesday     | 2:45 PM           |
| Schwend        | William       | 749   | In-space Assembly, Manufacturing, and Space Robotics                                | Wednesday   | 3:30 PM           |
| Schwend        | William       | 693   | In-space Assembly, Manufacturing, and Space Robotics                                | Wednesday   | 3:45 PM           |
| Seibert        | Fabienne      | 768   | Trajectory Design and Optimization VIII                                             | Wednesday   | 2:00 PM           |
| Selph          | Logan         | 962   | Machine Learning and Artificial Intelligence Applied to Spaceflight V               | Wednesday   | 1:30 PM           |
| Selvamurugan   | Shan          | 925   | Trajectory Design and Optimization V                                                | Tuesday     | 1:30 PM           |
| Servadio       | Simone        | 933   | Orbit Determination and Estimation I                                                | Monday      | 9:15 AM           |
| Servadio       | Simone        | 948   | Spacecraft Guidance, Navigation and Control (GNC) II                                | Tuesday     | 9:15 AM           |
| Servadio       | Simone        | 613   | Orbit Determination and Estimation III                                              | Wednesday   | 8:00 AM           |
| Servadio       | Simone        | 881   | Space Situational Awareness, Conjunction Analysis, and Collision Avoidance III      | Wednesday   | 1:45 PM           |
| Shaffer        | Annabella     | 805   | Trajectory Design and Optimization VIII                                             | Wednesday   | 1:30 PM           |
| Shakerin       | Kian          | 640   | Orbit Determination and Estimation II                                               | Tuesday     | 8:45 AM           |
| Shan           | Jinjun        | 815   | Machine Learning and Artificial Intelligence Applied to Spaceflight II              | Monday      | 1:45 PM           |
| Sharma         | Harshul       | 895   | Trajectory Design and Optimization I                                                | Monday      | 8:00 AM           |
| Sharma         | Varoon        | 614   | Trajectory Design and Optimization III                                              | Monday      | 1:15 PM           |
| Shibukawa      | Masato        | 709   | Trajectory Design and Optimization II                                               | Monday      | 10:45 AM          |
| Shihara        | Takayuki      | 902   | Orbital Dynamics, Perturbations, and Stability                                      | Wednesday   | 11:30 AM          |
| Shin           | Soichiro      | 770   | Dynamical Systems Theory Applied to Spaceflight Problems II                         | Tuesday     | 1:15 PM           |
| Sholder        | Rachel        | 803   | Orbital Debris and Space Environment II                                             | Wednesday   | 11:00 AM          |
| Shrivastava    | Shaurya       | 907   | Trajectory Design and Optimization X                                                | Thursday    | 8:00 AM           |

| Last Name         | First Name        | Paper | Session Name                                                                        | Session Day | Presentation Time |
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| Siddique          | Fazle             | 898   | Trajectory Design and Optimization VII                                              | Wednesday   | 11:30 AM          |
| Siddique          | Fazle             | 986   | Orbit Determination and Estimation IV                                               | Thursday    | 9:45 AM           |
| Sinclair          | Andrew J.         | 663   | Spacecraft Guidance, Navigation and Control (GNC) I                                 | Monday      | 8:15 AM           |
| Singh             | Jay               | 654   | Cislunar Astrodynamics I                                                            | Monday      | 9:15 AM           |
| Singh             | Jay               | 694   | Cislunar Astrodynamics IV                                                           | Wednesday   | 9:00 AM           |
| Singh             | Satyendra         | 645   | Trajectory Design and Optimization VI                                               | Wednesday   | 8:00 AM           |
| Smego             | Liam              | 981   | Satellite Constellations and Formations I                                           | Monday      | 4:30 PM           |
| Soni              | Priyal            | 982   | Orbit Determination and Estimation III                                              | Wednesday   | 8:15 AM           |
| Soria-Carro       | Anabel            | 843   | Cislunar Astrodynamics III                                                          | Tuesday     | 2:30 PM           |
| Sours             | Sarah             | 695   | Special Session: Space Weather Observations at L1 to Advance Readiness-1 (SOLAR-1)  | Wednesday   | 4:15 PM           |
| Spreen            | Christopher       | 737   | Trajectory Design and Optimization I                                                | Monday      | 9:15 AM           |
| Stannard-Stockton | Drew              | 1022  | Machine Learning and Artificial Intelligence Applied to Spaceflight III             | Tuesday     | 11:45 AM          |
| Stewart           | Parker            | 691   | Rendezvous, Relative Motion, and Proximity Operations II                            | Tuesday     | 10:45 AM          |
| Stewart           | Parker            | 612   | Satellite Constellations and Formations II                                          | Tuesday     | 4:15 PM           |
| Stiffler          | Taylor            | 702   | Space Domain Awareness (SDA) and Space Surveillance II                              | Tuesday     | 10:45 AM          |
| Storey-Matsutani  | Mariko            | 777   | Machine Learning and Artificial Intelligence Applied to Spaceflight V               | Wednesday   | 2:15 PM           |
| Stueck            | Clifford          | 620   | Space Situational Awareness, Conjunction Analysis, and Collision Avoidance I        | Monday      | 2:00 PM           |
| Sugimori          | Kenichi           | 819   | Rendezvous, Relative Motion, and Proximity Operations I                             | Monday      | 10:30 AM          |
| Sydney Schwartz   | Jack              | 1042  | Dynamical Systems Theory Applied to Spaceflight Problems IV                         | Thursday    | 11:15 AM          |
| Taghizadeh        | Mitra             | 892   | In-space Assembly, Manufacturing, and Space Robotics                                | Wednesday   | 4:30 PM           |
| Takano            | Takahiro          | 673   | Rendezvous, Relative Motion, and Proximity Operations II                            | Tuesday     | 10:30 AM          |
| Takao             | Yuki              | 1012  | Trajectory Design and Optimization VIII                                             | Wednesday   | 1:45 PM           |
| Tanygin           | Sergei I.         | 831   | Earth Orbital and Planetary Mission Studies                                         | Wednesday   | 10:30 AM          |
| Terra             | Maisa             | 990   | Dynamical Systems Theory Applied to Spaceflight Problems I                          | Monday      | 1:45 PM           |
| Terra             | Maisa             | 968   | Asteroid and Interplanetary Mission Design                                          | Tuesday     | 4:30 PM           |
| Toler             | Zee               | 699   | Orbit Determination and Estimation III                                              | Wednesday   | 8:45 AM           |
| Toumey            | Eliot             | 696   | Space Situational Awareness, Conjunction Analysis, and Collision Avoidance III      | Wednesday   | 2:00 PM           |
| Trivedi           | Shantanu          | 797   | Cislunar Astrodynamics II                                                           | Tuesday     | 8:45 AM           |
| Turco             | Fabrizio          | 656   | Trajectory Design and Optimization III                                              | Monday      | 1:30 PM           |
| Türker            | Mehmet Umut       | 632   | Rendezvous, Relative Motion, and Proximity Operations I                             | Monday      | 11:30 AM          |
| Turner            | David Dezell      | 758   | Special Session Panel: Extended Reality (XR) and Spatial Computing in Astrodynamics | Monday      | 3:30 PM           |
| Tüylek Tok        | Rabia             | 826   | Space Situational Awareness, Conjunction Analysis, and Collision Avoidance I        | Monday      | 2:15 PM           |
| Valencia Alvarez  | Germán            | 1048  | Poster Session                                                                      | Tuesday     | 3:30 PM           |
| Vallado           | David             | 698   | Space Situational Awareness, Conjunction Analysis, and Collision Avoidance II       | Tuesday     | 10:45 AM          |
| Van Hammond       | Carter            | 621   | Cislunar Astrodynamics I                                                            | Monday      | 8:45 AM           |
| Vasudevan         | Nijanthan         | 664   | Orbital Dynamics, Perturbations, and Stability                                      | Wednesday   | 10:30 AM          |
| Verdi             | Alec              | 999   | Machine Learning and Artificial Intelligence Applied to Spaceflight II              | Monday      | 2:15 PM           |
| Verdi             | Alec              | 997   | Dynamical Systems Theory Applied to Spaceflight Problems IV                         | Thursday    | 11:30 AM          |
| Verma             | Vandi             | 647   | Machine Learning and Artificial Intelligence Applied to Spaceflight III             | Tuesday     | 11:00 AM          |
| Verma             | Vivek             | 852   | Dynamical Systems Theory Applied to Spaceflight Problems III                        | Wednesday   | 1:15 PM           |
| Vernekar          | Harish            | 1004  | Rendezvous, Relative Motion, and Proximity Operations I                             | Monday      | 11:00 AM          |
| Wagner            | Sean              | 669   | Trajectory Design and Optimization IX                                               | Wednesday   | 3:30 PM           |
| Wagner            | Sean              | 801   | Trajectory Design and Optimization IX                                               | Wednesday   | 4:45 PM           |
| Walker            | James             | 891   | Orbital Debris and Space Environment III                                            | Wednesday   | 4:30 PM           |
| Wang              | Jiale             | 644   | Poster Session                                                                      | Tuesday     | 3:30 PM           |
| Warner            | Joshua            | 829   | Orbital Debris and Space Environment I                                              | Monday      | 4:00 PM           |
| Weatherbee        | Aiden             | 967   | Trajectory Design and Optimization III                                              | Monday      | 2:00 PM           |
| Weeden            | Nicole            | 1029  | Cislunar Astrodynamics V                                                            | Thursday    | 8:30 AM           |
| Wijayatunga       | Minduli Charithma | 883   | Machine Learning and Artificial Intelligence Applied to Spaceflight III             | Tuesday     | 10:30 AM          |
| Wijayatunga       | Minduli Charithma | 862   | Machine Learning and Artificial Intelligence Applied to Spaceflight III             | Tuesday     | 11:15 AM          |
| Wijayatunga       | Minduli Charithma | 790   | Machine Learning and Artificial Intelligence Applied to Spaceflight V               | Wednesday   | 2:00 PM           |
| Wilson            | Elijah            | 773   | Attitude Dynamics, Determination and Control                                        | Monday      | 4:15 PM           |
| Wolf              | Trevor            | 978   | Cislunar Astrodynamics II                                                           | Tuesday     | 9:45 AM           |
| Won               | Dongshik          | 919   | Space Domain Awareness (SDA) and Space Surveillance II                              | Tuesday     | 11:00 AM          |
| Wrieden           | Jonathan          | 650   | Orbital Debris and Space Environment II                                             | Wednesday   | 10:45 AM          |
| Wu                | Wei               | 692   | Dynamical Systems Theory Applied to Spaceflight Problems III                        | Wednesday   | 2:45 PM           |
| Yamamoto          | Koya              | 969   | Space Domain Awareness (SDA) and Space Surveillance I                               | Monday      | 11:30 AM          |
| Yi                | Gunhee            | 729   | Trajectory Design and Optimization III                                              | Monday      | 1:45 PM           |
| Yin               | Mingde            | 684   | Trajectory Design and Optimization I                                                | Monday      | 9:30 AM           |
| Yin               | Mingde            | 683   | Trajectory Design and Optimization II                                               | Monday      | 11:15 AM          |

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| Yu        | Victor     | 816   | Trajectory Design and Optimization X                | Thursday    | 9:00 AM           |
| Zamora    | Alberto    | 1007  | Spacecraft Guidance, Navigation and Control (GNC) V | Thursday    | 10:45 AM          |
| Zastrow   | Joshua     | 976   | Cislunar Astrodynamics IV                           | Wednesday   | 8:45 AM           |
| Zavoli    | Alessandro | 929   | Trajectory Design and Optimization VI               | Wednesday   | 9:15 AM           |
| Zhou      | Zhiwei     | 659   | Trajectory Design and Optimization I                | Monday      | 9:00 AM           |