

Monday Morning August 12

<p>Trajectory Design & Optimization I Eastland Ball Room</p>	<p>Guidance, Navigation & Control I Hawthorne</p>	<p>Earth Orbital & Planetary Missions Longfellow</p>	<p>Relative Motion, Formation Flying, Rendezvous and Proximity Operations I Rines A</p>
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Time	Author		Presentation Title	Author		Presentation Title	Author		Presentation Title	Author		Presentation Title
08:00	Michael	Salinas	NAVIGATING TO A KUIPER BELT OBJECT: MANEUVER PLANNING ON THE APPROACH TO ULTIMA THULE	Maruthi R.	Akella	Multi-Sensor Management under Information Constraints	Nathan	Parrish	Optimal Deorbit from Low Earth Orbit with Electric Propulsion	David	Lujan	Monte Carlo Analysis of a Particle Swarm Optimizer of Space-based Receivers for Geolocation Using Heterogeneous TDOA
08:20	Craig	Cluever	Rapid Evaluation of Low-Thrust Transfers from Elliptical Orbits to Geostationary Orbit	James	Brouk	Uncertainty Analysis of a Generalized Coning Algorithm for Inertial Navigation	James Evans	Lyne	Mission Opportunities to Trans-Neptunian Objects - Part VI	William	Bezouska	Sensor Selection Strategies for Satellite Swarm Collaborative Localization
08:40	Rodney L.	Anderson	Endgame Design for Europa Lander: Ganymede to Europa Approach	Keum	Lee	Generalized Composite Noncertainty-Equivalence Adaptive Control of Orbiting Spacecraft in Vicinity of Asteroid	Paul	McKee	Optical Methods for Finding New Natural Satellites of the Solar System's Outer Planets	Andrew	Harris	Desensitized Optimal Attitude Guidance for Differential-Drag Rendezvous
09:00	Jeannette	Heiligers	Homo- and Heteroclinic Connections in the Spatial Solar-Sail Earth-Moon Three-Body Problem	Benjamin	Schilling	The Surface Navigation Approach for the Dragonfly Lander	Todd	Ely	Overview of the Deep Space Atomic Clock Technology Demonstration Mission	Matthew	Willis	Second-Order Solution for Relative Motion on Eccentric Orbits in Curvilinear Coordinates
09:20	Daniel	Miller	Interplanetary Low-Thrust Design Using Proximal Policy Optimization	Christopher	D'Souza	A Framework for Scaling in Filtering and Linear Covariance Analysis	Daniele	Mortari	Impulsive Least-Squares Orbit Maintenance using Gauss's Variational Equations	Satoshi	Ueda	Precise rendezvous guidance in cislunar orbit via surrogate modelling
09:40	Pablo	Muñoz	Missed-Thrust Analysis of BepiColombo's Interplanetary Transfer to Mercury Orbit	Hunter	Johnston	An Analysis of the Theory of Connections Subject to Inequality Constraints	Rodrigo	Schmitt	OPTIMIZATION OF LOW THRUST TRANSFER ORBITS OF A SPACECRAFT CONSIDERING THE RADIATION HAZARD FROM THE VAN ALLEN BELTS	Giordana	Bucchioni	Dynamical Issues in Rendezvous operations with Third Body Perturbation
10:20	Jeffrey	Stuart	Through the Looking Glass: Mission Design using Interactive and Immersive Visualization Environments	Jonathan	Manni	ADDRESSING VARYING LIGHTING CONDITIONS WITH APPLICATION TO TERRAIN RELATIVE NAVIGATION	Roshan Thomas	Eapen	Extended Phase Space Realization for Attitude Dynamics of an Axisymmetric Body in Eccentric Orbit	Costantinos	Zagaris	Applied Reachability Analysis of Spacecraft Rendezvous With a Tumbling Object
10:40	Daniele	Mortari	Theory of Connections applied to nonlinear programming under equality constraints	Nathan	Stacey	Adaptive, Dynamically Constrained Process Noise Estimation for Autonomous Orbit Determination	Ariadna	Farres	Solar Radiation Pressure Effects on the orbital motion at SEL2 for the James Webb Space Telescope	Ethan	Burnett	Desensitized Optimal Spacecraft Rendezvous Control with Poorly Known Gravitational and Solar Radiation Pressure Perturbations
11:00	Ehsan	Taheri	Revisiting "How Many Impulses?" Question	Carl	Leake	An Explanation and Implementation of Multivariate Theory of Connections via Examples	Sean	McArdle	Stable Low Altitude Lunar Periodic Orbits using the GRAIL Gravity Field	Trevor	Williams	MMS Extended Mission Eclipse Mitigation and Solar Wind Turbulence Science Campaign
11:20	Simon	Le Cleac'h	FAST SOLUTION OF OPTIMAL CONTROL PROBLEMS WITH L1 COST	Kevin	Lohan	Characterization of Candidate Vehicle States for XNAV Systems	James	Williams	Vehicle and Mission Design Options for Very Low Earth Orbit CubeSats			

Monday Afternoon August 12

Trajectory Design & Optimization II Eastland Ball Room

Guidance, Navigation & Control II Hawthorne

Orbital Dynamics, Perturbations, and Stability Longfellow

Relative Motion, Formation Flying, Rendezvous and Proximity Operations II Rines A

Time	Author		Presentation Title	Author		Presentation Title	Author		Presentation Title	Author		Presentation Title
01:30	Erica	Jenson	Robust Trajectory Optimization Using Minimum-Error Cost Functions	Junette	Hsin	SUN-AVOIDANCE SLEW PLANNING ALGORITHM WITH POINTING AND ACTUATOR CONSTRAINTS	Guanwei	He	Approximate Analytic Representations For Fixed-angle Low-thrust Trajectories	Skylar	Cox	Constellation Planning Methods for Sequential Spacecraft Rendezvous Using Multi-Agent Scheduling
01:50	Boris	Benedikter	A Convex Optimization Approach for Finite-Thrust Time-Constrained Cooperative Rendezvous	Matthew	Hawkins	CHANGO: A Software Tool for Boost Stage Guidance of the Space Launch System Exploration Mission 1	Ethan	Burnett	Analytic Approximations of Orbit Geometry in a Rotating Higher Order Gravity Field	Sylvain	Renevey	Geometric Formations Using Relative Orbital Elements and Artificial Potential Functions
02:10	Michel	Loucks	Launch Opportunity Analysis of GEO Transfer with High Inclination using Lunar Gravity Assist	Enrico	Schiassi	Fuel-efficient Powered Descent Guidance on Planetary Bodies via Theory of Connection	Hunter	Johnston	Orbit Propagation via the Theory of Connections	Bo	Naasz	Launch, Transport, Aggregation, and Assembly of an In-Space Assembled Telescope
02:30	Melissa	Onishi	Design and Synthesis of Entry, Powered Descent and Landing Maneuver Trajectories using Motion Envelopes	Divya	Bhatia	Error Analysis of Closed-loop Attitude Estimation and Control System for Spacecraft High Accuracy Pointing	Rodolpho	Moraes	Quasi-Heliosynchronous Orbits	Kristofer	Drozd	Constrained Energy-Optimal Guidance in Relative Motion via Theory of Functional Connections and Rapidly-Explored Random Trees
02:50	Anthony	Iannuzzi	Dependent Variable Integration for event finding with validation in orbit propagation	Shuya	Kashioka	Onboard Optical Navigation for Asteroid Explorer by Asteroid Shape Model	David A.	Vallado	Long-Term Numerical Propagation for Earth Orbiting Satellites	Kevin	Kobylka	Analytic Center of Illumination solutions to aid Relative Navigation with Partially Resolved Imagery
03:10	Zachary	Folcik	ACCURATE LOW-THRUST ORBIT TRANSFER SOLUTIONS IN EQUINOCTIAL ELEMENTS USING AN ANALYTIC REPRESENTATION OF THE GEOPOTENTIAL	Benjamin	Margolis	Control and Simulation of a Deployable Entry Vehicle with Aerodynamic Control Surfaces	Trevor	Williams	Lunisolar Perturbations of High-Eccentricity Orbits Such as the Magnetospheric Multiscale Mission	Shota	Takahashi	Autonomous Characterization of an Asteroid from a Hovering Trajectory
03:50	Jacob	Williams	Copernicus 5.0: Latest Advances in JSC's Spacecraft Trajectory Optimization and Design System	Paolo	Panicucci	Variational Lambert Problem with uncertain dynamics	Gim	Der	Computing Kepler Equations for Analytic Orbit Propagation	Eric	Butcher	Morse-Lyapunov-Based Decentralized Consensus Control of Rigid Body Spacecraft in Orbital Relative Motion
04:10	Yanping	Guo	Parker Solar Probe Mission Design	Andrew	Goodyear	Analytical State Transition Matrix For Dual-Quaternions For Spacecraft Pose Estimation	Nicholas	Bradley	Navigation Models for Psyche Electric Propulsion Uncertainty	Muhammad Wasif	Memon	Nonlinear Optimal Tracking Control of Two-Craft Coulomb Formation in Elliptic Chief Orbits
04:30	Donald	Ellison	High-Fidelity Multiple-Flyby Trajectory Optimization Using Multiple-Shooting	Donald	Kuettel	Collision Avoidance Around Small Bodies Using Low-Thrust Guidance	Harshkumar	Patel	APPLICATION OF UDWADIA-KALABA FORMULATION TO THREE-BODY PROBLEM	Lisa	PolICASTRI	HelloSwarm: Space-Based Relative Ranging for a Cubesat Cluster Mission in a 2:1 Lunar Resonant Orbit
01:30				Daniel	Cervantes	SUN SEARCH DESIGN FOR THE PSYCHE SPACECRAFT	Smriti Nandan	Paul	Long-term Survey of LAMR and HAMR Objects Using Analytic Techniques			
01:50				Lincoln	Wood	The Evolution of Deep Space Navigation: 2009-2012						

Tuesday Morning August 13

Trajectory Design & Optimization III
Eastland Ball Room

Flight Dynamics, Operations and Atmospheric GN&C
Hawthorne

Dynamical Systems Theory I
Longfellow

Orbit Determination & Space Surveillance Tracking I
Winslow Homer

Time	Author		Presentation Title	Author		Presentation Title	Author		Presentation Title	Author		Presentation Title
08:00	Mohammad	Azhar	LOW THRUST TRANSFERS BETWEEN HALO ORBITS IN THE EARTH-MOON SYSTEM	Pratik	Dave	Autonomous Satellite Navigation using Intersatellite Laser Communications	Andrew	Cox	High-Energy Lunar Capture via Low-Thrust Dynamical Structures	Simone	Servadio	Maximum A Posteriori Estimation of Hamiltonian Systems with High Order Series Expansions
08:20	Taabish	Rashied	Mid-Course Correction Contingency Analysis for James Webb Space Telescope	Breanna	Johnson	Mid-Lift-to-Drage ratio Rigid Vehicle 6-DoF EDL Performance Using Tunable Apollo Powered Descent Guidance	Kenta	Oshima	Linking Low- to High-Energy Dynamics of Invariant Manifold Tubes, Transit Orbits, and Singular Collision Orbits	Daegyun	Choi	A Study on Effective Initial Guess Finding Method Based on Bezier Curves: Orbit Determination Applications
08:40	Robert	Potter	Leveraging NASA's Lunar Gateway and Human Landing System for Low-Cost and Low-Risk Mars Orbital Missions	Todd	Ely	Radiometric Autonomous Navigation Fused with Optical For Deep Space Exploration	Roshan Thomas	Eapen	Canonical Transformations via a Sparse Approximation-Based Collocation Method for Dynamical Systems	Mark	Psiaki	Gaussian Mixture Filter Angles-Only Orbit Determination using Modified Equinoctial Osculating Elements
09:00	AMANDA	HAAPALA CHALK	Exploration of IMAP Science Orbit Design Space to Balance Nominal and Extended Mission Trades	John	Carrico	THE FIRST COMMERCIAL LUNAR LANDER MISSION: BERESHEET	Rodney L.	Anderson	Enabling Broad Energy Range Computations at Libration Points Using Isolating Neighborhoods	Cristian	Greco	ROBUST PARTICLE FILTER FOR SPACE OBJECTS TRACKING UNDER SEVERE UNCERTAINTY
09:20	Jose Manuel	Sanchez Perez	Missed Thrust Analysis for a Potential Mars Sample Return Orbiter	Evan	Roelke	Improved Atmospheric Estimation for Aerocapture Guidance	Juan	Ojeda Romero	Transfers from GTO to Sun-Earth Libration Orbits	Gim	Der	Computing Gauss-Laplace Equations for Optical Data Processing
09:40	Min	Qu	End to End Optimization of a Mars Hybrid Transportation Architecture	Russell	DeHart	THE DEVELOPMENT OF AN OPEN-LOOP ANGULAR MOMENTUM UNLOAD METHODOLOGY FOR THE LUNAR RECONNAISSANCE ORBITER AND OF ALGORITHMS TO PREDICT SYSTEM PERFORMANCE	Jeffrey	Stuart	Accessing Highly Out-of-Ecliptic Science Orbits via Low-Energy, Low-Thrust Transport Mechanisms	Nicholas	Bradley	Cis-Lunar Navigation Accuracy using Optical Observations of Natural and Artificial Targets
10:20	Jacob	Englander	Optimization of the Lucy Interplanetary Trajectory via Two-Point Direct Shooting	Giusy	Falcone	Aerobraking Trajectory Control Using Articulated Solar Panels	Isabelle	Jean	Design and Control of Spacecraft Trajectories in the Full Restricted Three Body Problem	David	Ciliberto	OPTIMAL QUADRATURE BASED FILTERING IN REGULARIZED COORDINATES FOR ORBIT DETERMINATION
10:40	Rachana	Agrawal	Enabling Sustainable Human Exploration of Mars via an Orbital Logistics Node	Jason	Tardy	Entry Trajectory Tracking Using Equivalent Elevation State Feedback	Jeroen	Geeraert	OSIRIS-REx Navigation Small Force Models	Peter	Scarcella	Consider Filtering Applied to Maneuver Detection for Relative Orbit Determination
11:00	Robert	Potter	Survey of Twenty Unique Low-Thrust Earth-Mars Cypher Geometries	Kevin	Bonnet	Estimation of Entry Vehicle Parameters from Trajectory Data	Daniel	Brack	Asteroid Deflection with Active Boulder Removal	Gim	Der	Computing Multi-rev Lambert Equations for Radar data Processing
11:20							Diogo	Merguizo Sanchez	Stability of highly inclined orbits around the asteroid (153591) 2001 SN263	John	Gaebler	Track Initiation for CubeSat Cluster Deployment Tracking
11:40							RICHARD	LINARES	Koopman Operator Theory in Astrodynamics	Alex	Sizemore	Root Locus Method of Determining Sensitivity of Polynomial Systems to Error in Orbit Determination Problems

Tuesday Afternoon August 13

Asteroid & Non-Earth Orbiting Missions I Eastland Ball Room			High Performance Computing, Large Space Structures & Tethers Hawthorne			Special Session: GTOC - X (Global Trajectory Optimization Competition) Longfellow			Special session: NASA CARA CA Requirements Development Initiative Winslow Homer			
Time	Author		Presentation Title	Author		Presentation Title	Author		Presentation Title	Author		Presentation Title
01:30	Gregory	Hatfield	Experimental Field Testing and Confirmation of Particle Swarm Optimization for Autonomous Extraterrestrial Surface Search and Exploration	Diane	Davis	Cloud Computing Methods for Near Rectilinear Halo Orbit Trajectory Design	Anastassios	Petropoulos	GTOC X: Settlers of the Galaxy Problem Description and Summary of the Results	Alinda	Mashiku	NASA Conjunction Assessment Risk Analysis Updated Requirements Architecture
01:50	Luigi	Mascolo	Fast Estimation Method for Trajectories to Near-Earth Asteroids	Ryne	Beeson	NLPAROPT: A Parallel Nonlinear Programming Solver - Applications to Spacecraft Trajectory Optimization	Alessandro	Zavoli	GTOC X: Solution approach of Team Sapienza-PoliTo	Alinda	Mashiku	Recommended Methods for Setting Mission Conjunction Analysis Hard Body Radii
02:10	Daniel	Adamo	Initial Near-Earth Object Accessibility Insights From The NHATSchecker Utility	Antonio	Won	Robust Optimal Fuzzy Sun-Point Control of a Large Solar Power Satellite Subject to Actuators Amplitude and Rate Constraints	Hao	Zhang	Settler of the Galaxy: The CSU Solution to GTOCX	Luis	Baars	Assessing GEO and LEO Repeating Conjunctions Using High Fidelity Brute Force Monte Carlo Simulations
02:30	Andrew	French	Multi-Arc Filtering During the Navigation Campaign of the OSIRIS-REx Mission	Minh	Phan	A Unified Formulation for State-Space Based Recovery of Mass, Stiffness, and Damping Matrices	zichen	fan	GTOC X: Methods and Results from the HIT_BACC Team	Matthew	Hejduk	Satellite Collision 'Probability,' 'Possibility,' and 'Plausibility': A Categorization of Competing CA Risk Assessment Paradigms
02:50	Shota	Kikuchi	Design and Reconstruction of the Hayabusa2 Precision Landing on Ryugu	Deepti	Kannapan	Design of a Distributed Modular Attitude Controller for Spacecraft Composed of Reconfigurable Joined Entities with Compliant Coupling	Marcus	Märtens	GTOC X: Our Plan to Settle the Galaxy (ESA-ACT)	Travis	Lechtenberg	An Operational Algorithm for Evaluating Satellite Collision Consequence
03:10	Andrew	Levine	OSIRIS-REX NAVIGATION CAMPAIGN TRAJECTORY DESIGN AND MANEUVER PERFORMANCE	Rachael	Gold	VALIDATION OF SIMULATION OF SPACE NET DEPLOYMENT PHASE WITH PARABOLIC FLIGHT EXPERIMENT DATA	Haiyang	Li	GTOC X: Results and Methods of Team 38 - Tsinghua & XINGYI	Travis	Lechtenberg	MULTIVARIATE NORMALITY OF CARTESIAN-FRAMED COVARIANCES: EVALUATION AND OPERATIONAL SIGNIFICANCE
03:30	Joel	Fischetti	Navigation Preparations for a Possible Binary System During the New Horizons Extended Mission				Peng	Shu	GTOC X: Results and Methods of National University of Defense Technology and Xi'an Satellite Control Center	Doyle	Hall	Determining Appropriate Risk Remediation Thresholds from Empirical Conjunction Data Using Survival Probability Methods
03:50	Wesley	Stackhouse	Spacecraft Asteroid Hovering using Udwardia-Kalaba Formulation with Time-Varying Coefficients				Anastassios	Petropoulos	GTOC X: General Question and Answer Session	Doyle	Hall	Implementation Recommendations and Usage Boundaries for the Two-Dimensional Probability of Collision Calculation
04:10							Anastassios	Petropoulos	GTOC X: Trophy Award Presentation			

Wednesday Morning August 14

Trajectory Design & Optimization IV Eastland Ball Room			Special Session: Artificial Intelligence in Astrodynamics I - Machine Learning Hawthorne			Asteroid & Non-Earth Orbiting Missions II Longfellow			Orbit Determination & Space Surveillance Tracking II Winslow Homer			
Time	Author		Presentation Title	Author		Presentation Title	Author		Presentation Title	Author		Presentation Title
08:00	Robyn	Woollands	Efficient Computation of Optimal Low Thrust Perturbed Orbit Transfers with Shadow Constraints	David	Schwab	Uncertainty Characterization and Surrogate Modeling for Angles Only Initial Orbit Determination	Jason	Swenson	NASA Goddard Independent Navigation Results for OSIRIS-REx Initial Encounter at Benu	Vishal	Ray	High-fidelity drag coefficient models for orbit determination
08:20	Jim	McAdams	Refining Lucy Mission Delta-V during Spacecraft Design using Trajectory Optimization within High-Fidelity Monte Carlo Maneuver Analysis	Roberto	Furfaro	Deep Imitation Learning and Clustering in Astrodynamics	David	Dunham	Earth-Moon Halo Orbit – Gateway or Tollbooth?	Christopher	Rabotin	Application of Dual Number Theory to Statistical Orbital Determination
08:40	Manoranjan	Majji	Novel Chebyshev Collocation Method for Trajectory Optimization	Jordan	Murphy	Deep Learning Applications to Astrodynamics Problems	Alex	Davis	Sensitivity of Trajectories to Mass Parameters in the Restricted Full Three Body Problem	Alex	Friedman	Light Curve Inversion Observability Analysis
09:00	Cody	Short	Revisiting Trajectory Design with STK Astrogator, Part 1	Tae Ha	Park	Towards Robust Learning-Based Pose Estimation of Noncooperative Spacecraft	Enrico	Zucchelli	Autonomous Estimation of Spin and Shape of a Small Body via Extended Target Tracking	Jeremy	Bauman	NEW HORIZONS' ORBIT DETERMINATION PERFORMANCE THROUGHOUT THE EXTENDED MISSION TO ULTIMA THULE
09:20	Wayne	Yu	Libration Orbit Eclipse Avoidance Maneuver Study for the James Webber Space Telescope Mission	Kevin	Cowan	Gaussian Process models for preliminary low-thrust trajectory optimization	Jason	Leonard	OSIRIS-REx Orbit Determination Performance During the Navigation Campaign	Sehyun	Yun	Sensor Configuration Trade Study for Navigation in Near Rectilinear Halo Orbits
09:40	Padmanabha	Prasanna Simha	Low thrust variable specific impulse fuel-optimal transfers between planetary parking orbits	Hao	Peng	Covariance Fusion Method of Gaussian Processes Covariance and Orbital Prediction Uncertainty	Andrea	Viale	Dynamics of a non-rigid Orbital Siphon at a near-Earth asteroid	Yu	Takahashi	The effect of small forces on Juno Orbit Determination during the orbit phase
10:20	Jason	Reiter	OPTIMIZATION IN SPACE-BASED PURSUIT-EVASION GAMES THROUGH COMPETITIVE COEVOLUTION	Tianyu	Gao	Calibration of atmospheric density model based on Gaussian process				Dylan	Boone	Independent Navigation Team Orbit Estimation of 2014MU69 for New Horizons' Kuiper Belt Object Flyby
10:40	J.P.	Carrico	ANALYSIS OF A CONSTRAINED OPTIMAL MULTIPLE-PHASE LANDING TRAJECTORY FOR A SMALL ROBOTIC LUNAR LANDER	Yueyong	Lyu	Adaptive Online Learning Strategy for Post-capture Attitude Takeover Control of Noncooperative Space Target				Craig	McLaughlin	Implementing an Idan Speyer Cauchy Drag Estimator
11:00	Atri	Dutta	Selecting Planning Horizon Length for Sequential Low-Thrust Orbit-Raising Optimization Problem	Ari	Rubinsztein	Neural Network Based Optimal Control: Resilience to Missed Thrust Events for Long Duration Transfers				James	Woodburn	Analysis of Relative Merits of Unscented and Extended Kalman Filters in Orbit Determination
11:20										Jeremy	Knittel	Automated Navigation Analysis for the Lucy Mission
11:40										Luciano	less	Orbit determination and tests of general relativity in the cruise phase of BepiColombo

Thursday Morning August 15

Trajectory Design & Optimization VI Eastland Ball Room			Special Session: Artificial Intelligence in Astrodynamics II - Reinforcement Learning Hawthorne			Space Situational Awareness & Conjunction Analysis Longfellow			Attitude Dynamics & Control II Winslow Homer			
Time	Author		Presentation Title	Author		Presentation Title	Author		Presentation Title	Author		Presentation Title
08:00	David	Ottesen	Unconstrained Spacecraft Trajectory Optimization using Embedded Boundary Value Problems	Minh	Phan	Value Iteration and Q-Learning for Optimal Control by High Dimensional Model Representation (HDMR)	J. Russell	Carpenter	Covariance Realism is Not Enough	Kátia	Maier dos Santos	ATTITUDE DETERMINATION STRATEGY BASED ON KALMAN FILTER FOR THE SPORT CUBESAT SCIENCE MISSION
08:20	Jeremy	Petersen	L2 Station Keeping Maneuver Strategy for the James Webb Space Telescope	RICHARD	LINARES	A New approach to Autonomous Asteroid Close Proximity Maneuvers Enabled by Reinforcement Learning	Conor	Benson	The YORP Effect for Tumbling Defunct GEO Satellites	Ossama	Abdelkhalik	Efficient B-dot Law for Spacecraft Detumbling
08:40	Gabriel	Soto	Solar Sail Trajectories and Orbit Phasing of Modular Spacecraft for Segmented Telescope Assembly about Sun-Earth L2	Andrea	Scorsoglio	ELM-based Actor-Critic approach to Lyapunov vector fields relative motion guidance in Near-Rectilinear Orbits	William	Bezouska	Very Low Resolution Spacecraft Recognition and Pose Estimation for Close-Range Rendezvous and Proximity Operations	Ayman	Ismail	Evaluating the Stability Boundary and Derivation of a Sufficient Condition for Second Order Repetitive Control
09:00	Francois	Rogez	Maneuver planning for NISAR mission	Alinda	Mashiku	PREDICTING SATELLITE CLOSE APPROACHES USING STATISTICAL PARAMETERS IN THE CONTEXT OF ARTIFICIAL INTELLIGENCE.	Ken	Chan	CubeSats Hovering Collision Probability	Domenico	Trotta	Opportunities and Limitations of Adaptive Augmented Control for Launch Vehicle Attitude Control in Atmospheric Flight
09:20	Darcey	Graham	Mission Feasibility from Trajectory Optimization and the State of Space Systems Research at the University of Auckland	Ashwati	Das-Stuart	Contingency Planning in Complex Dynamical Environments via Heuristically Accelerated Reinforcement Learning	Piyush	Mehta	Data-Driven Framework for Space Weather Modeling with Uncertainty Treatment towards Space Situational Awareness and Space Traffic Management	Carl	Leake	Orthogonal range searching in n-dimensional spaces using k-vector
09:40	Jennifer	Hudson	Micro-Pulsed Plasma Thruster Maneuver Characterization	Davide	Guzzetti	Reinforcement Learning and Topology of Orbit Manifolds for Stationkeeping of Unstable Symmetric Periodic Orbits	Mark	Vincent	A New Look at Predictive Probability of Collision, Predictive Maneuver Trade Spaces	Yanje	Guo	Relative Positioning and Tracking of Tethered Small Spacecraft Using Optical Sensors
10:20	Diane	Davis	Heliocentric Escape and Lunar Impact From Near Rectilinear Halo Orbits	Jason	Reiter	SPACECRAFT MANEUVER STRATEGY OPTIMIZATION FOR DETECTION AVOIDANCE USING REINFORCEMENT LEARNING	Carolyn	Frueh	No Feedback Multi-Sensor Tasking	Xiaoqiang	Ji	Proof of Stable Inverses not Involving Factorization and Evaluations of Their Superiority
10:40	Kenshiro	Oguri	Risk-aware Trajectory Design with Impulsive Maneuvers: Convex Optimization Approach	Tianyi	Zhang	Evaluation of Use of Zero Phase Circulant Low Pass Filters for Robustification of Iterative Learning Control	David	Shteinman	Design & Development Of An Optimized Sensor Scheduling & Tasking Program For Tracking Space Objects	Marcelino	Mendes de Almeida	Time-varying feedback for attitude regulation in prescribed finite-time
11:00							Onalli	Gunasekara	Space-Based Target Search Methods using an Optical Sensor Model for Space Situational Awareness	Ossama	Abdelkhalik	Efficient Magnetic Attitude Regulation Control
11:20										John	Galjanic	Relative Attitude Control of Two Spacecraft Using Electrostatic Interactions
11:40										Lara	Magallanes	Optimum Momentum Bias for Zero-Feedback Reaction Wheel Slews