





Safety for the Space of Tomorrow

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Our extensive track record with USSPACECOM's JCO, EU SST, EUSPA, ESA and several other national space agencies and MoDs underscore our role as a premier provider and integrator of SST ground segment infrastructure.

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### Wednesday, May 8, 2024 ### 8:00am – 9:00am Registration ### 8:00am – 9:00am Breakfast ### 9:00am – 9:30am Welcome from Chairs, IAA Delegates, and Embry Riddle Aeronautical University ### 9:30am – 10:30am Keynote 1: The Imperative for a Multi-National Approach to SSA & Space Sustainability ### Registration Registration ### 11:00am – 12:40pm Morning Session – Identification, Estimation, and Tracking ### 12:40pm – 2:00pm Lunch ### 2:00pm – 3:40pm Afternoon Session I - Debris Removal ### 3:40pm – 4:00pm Coffee Break ### 4:00pm – 5:40pm Afternoon Session II – Spacecraft GNC ### Thursday, May 9, 2024 ### 8:00am – 9:00am Breakfast ### 9:00am – 10:00am Registration ### Breakfast ### 9:00am – 10:30am Coffee Break ### 10:30am – 12:35pm Morning Session – Policy and Risk Assessment ### 12:35pm – 2:00pm Lunch ### 2:00pm – 4:05pm Afternoon Session – Sensing and Forecasting ### 4:30pm – 5:30pm Coffee and Networking ### 4:30pm – 5:30pm Awards Ceremony & Reception ### Friday, May 10, 2024 ### 8:00am – 12:30pm Registration ### 3:00am – 12:30pm Registration ### 3:0am – 12:30pm					
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	12:30pm – 12:35pm	Farewell & Closing Ceremony			

ICSSA 2024 Extended Presentation Schedule

Wednesday, May 8, 2024				
		Morning Sessio		
	<u> </u>	Session Chair – Troy He		
TOPIC	TIME	TITLE	AUTHORS	ORGANIZATION
Identification, Estimation, and Tracking I	11:00-11:25	IMPROVING SATELLITE POSITION AND VELOCITY CALCULATION DURING LOW THRUST MANEUVERS USING MULTI-BISTATIC RADAR AND UNSCENTED KALMAN FILTER	Bhaskar Ahuja*, Luca Gentile, Marco Martorella	The University of Trento
	11:25-11:50	Watch out GEO satellites, here's a new ML-method for manoeuvre detection and intent classification	Temenuzhka Avramova, Pietro De Marchi, Daniel Oltrogge, Jeff Cornelius, David Vallado, Francesco Caronte, Nadir Casciola	AIKO Space
	11:50 – 12:15	Object Characterization and Attitude Determination Using Data Fusion	Thomas Schildknecht, Christophe Paccolat, Peter Pessev, Palash Patole, Tim Flohrer, Beatriz Jilete	GMV
	12:15-12:40	A CONVEX OPTIMIZATION-BASED METHOD FOR EFFICIENT RECONSTRUCTION OF CONTINUOUS MANEUVERS	Xingyu Zhou*; Dong Qiao; Xiangyu Li	Beijing Institute of Technology
		Afternoon Session		
		Session Chair – Riccardo	·	
TOPIC	TIME	TITLE	AUTHORS	ORGANIZATION
Debris Removal	14:00-14:25	ORBITAL DEBRIS REMEDIATION VIA COLLECTION STATION	Bao-Minh Hoang, Adam Kall	Kall Morris Inc.
	14:25-14:50	SPACE DEBRIS DETECTION AND REMOVAL USING A SYNCHRONIZED NETWORK OF TELESCOPES AND ADR EQUIPMENT THROUGH A CONCERTED TRACE,	Muhammad Akbar Hussain, Muhammad Mehdi Hussain, Muhammad Waqar Haider, Muhammad Ayaz Hussain	Southern Cross Outback Observatories Project

		TRACK AND TACKLE				
		SEQUENCE				
	14:50-15:15	Active Debris Removal Using a Space Tug and a Tether Considering Collision Probability	Liqiang HOU, Arun K. MISRA, Zilong ZHUANG	McGill University		
	15:15 – 15:40	Post Capture Attitude Control for Unknown Debris	Nicolo Woodward, Riccardo Bevilacqua	ERAU		
		Afternoon Sessio				
	T	Session Chair – Troy He	enderson	Т		
	16:00 – 16:25	A novel time-optimal algorithm for a drag-based targeted re-entry	Emanuela Gaglio and Riccardo Bevilacqua	Scuola Superiore Meridionale		
	16:25 – 16:50	Optimal spacecraft collision avoidance using aerodynamic drag	Emanuela Gaglio, Constantin Traub, Fabrizio Turco, Jhonathan O. Murcia-Piñeros, Riccardo Bevilacqua and Stefanos Fasoulas	Scuola Superiore Meridionale		
Spacecraft GNC	16:50 – 17:15	DEVELOPMENT AND IMPLEMENTATION OF A NOVEL FAULT TOLERANT ADAPTIVE CONTROLLER FOR SPACECRAFT ATTITUDE CONTROL	Andres Perez(1), Hever Moncayo(2), Sebastian Leon(2)	ERAU		
	17:15 – 17:40	GENERATIVE LEARNING MODEL TO SPACECRAFT ATTITUDE ESTIMATION IN PROXIMITY OPERATIONS	Gabriela Gavilanez and Hever Moncayo	ERAU		
Thursday, May 9, 2024						
	Morning Session Session Chair – Tarek Elgohary					
TOPIC	TIME	TITLE	AUTHORS	ORGANIZATION		
-	10:30-10:55	COMMON SENSE ON SPACE TRAFFIC CONTROL (STC) FUNDING	Stuart Eves	SJE Space		
Policy and Risk Assessment	10:55-11:20	Public Company Disclosures of Space- related Risks	Geiger, Christopher; Geiger, Cwynn	Lockheed Martin		
	11:20-11:45	JAPAN'S NATIONAL SECURITY STRATEGY AND THE EVOLUTION OF SSA/SDA CAPABILITIES	Kota Umeda, Kazuto Suzuki, Koichi Kikuchi, and Ikuko Kuriyama	Institute of Geoeconomics		

	11:45-12:10 12:10-12:35	A Treatment of the All-Clear Problem for Solar Energetic Particle Events and Subsequent Decision Making Conjunction Analysis using TLE Predictions Enhanced by ML Approach Afternoon Session	Georgoulis, Manolis K. Joseph N. Wilhelm and Hao Peng	JHU APL
		Session Chair – Arun		
TOPIC	TIME	TITLE	AUTHORS	ORGANIZATION
	14:00 – 14:25	LIDAR SPACE DOMAIN AWARENESS	F. William Hersman PhD, Michael Briggs PhD, Jan Distelbrink PhD, Jeff Ketel, Steve Ketel, Iulian C. Ruset PhD	LiDAR space.com
	14:25 – 14:50	ASTAREON: Capabilities and performances of MEDOC radar station for LEO survey, cataloguing and servicing	Florent MULLER, Jocelyn COUETDIC, Bruno DUGROSPREZ and Thomas ADVANI	ASTAREON
Sensing and Forecasting	14:50 – 15:15	Evaluating different sensor tasking strategies for object catalog build-up	Manuel Schubert, Christopher Kebschull, Johannes Gelhaus, and Simona Silvestri	TU Braunschweig
	15:15 – 15:40	SYNTHETIC COVARIANCE PRODUCTION USING A NEW DIGITAL APPROACH	Gist, R.G., Oltrogge, D.L., and Alfano, S.	COMSPOC Corporation
	15:40 – 16:05	Analysis of aerodynamic characteristics for the vehicle in transition flow region based on a novel bridge function	Ruifeng Lv*, Hongwei Han, and Qian Pan	Beijing Institute of Technology
Friday, May 10, 2024				
		Morning Sessio		
TODIC	TIME	Session Chair – Tarek I	Elgohary AUTHORS	ODCANIZATION
Identification, Estimation, and Tracking II	10:00-10:25	ENHANCING SPACE SITUATIONAL AWARENESS TO MITIGATE RISK: A CASE STUDY IN THE MISIDENTIFICATION OF STARLINK SATELLITES AS	Douglas J. Buettner, Richard E. Griffiths, Nick Snell, and John Stilley	University of Utah

		UAP IN COMMERCIAL AVIATION Analysis of non-linear		
	10:25-10:50	orbit determination in the Cislunar region using the linearized state transition matrix	Seur Gi Jo, David Canales	ERAU
	10:50-11:15	Dual Quaternion-Based Kalman-Bucy Filter for Optimal Relative Pose Estimation	Ryan Kinzie, Pol Fontdegloria Balaguer, Riccardo Bevilacqua, Sergey Drakunov, Dongeun Seo, John W. Conklin, Peter J. Wass	ERAU
	11:15 – 11:40	Lunar Particle Trajectory Estimation from Rocket Impingement	Nicola-Isabella Ruiz, Daniel Lopez, and Troy Henderson	ERAU
	11:40 – 12:05	Neural Network to Predict Hypervelocity Fragment Flyout from Satellite Explosion Breakup Events	Katharine E. Larsen, Tahsinul Haque Tasif, Riccardo Bevilacqua	ERAU
	12:05 – 12:30	ORBIT DETERMINATION FOR A NON- COOPERATIVE TARGET CONSIDERING NAVIGATION ERROR OF OBSERVATION PLATFORM BASED ON RANDOM NOISE MODEL	Jiating Su, Lixuan He, Jiayi Li, Xiucong Sun	BUAA