

AC IPT Publications

Journal Articles

Study	PI	Year	Journal	Paper
4.01 LEO Drag Modeling Framework	Mehta	2025	Space Weather	Mehta Licata 2025 TIE-GCM ROPE - Dimensionality Reduction Part I
6.03 Orbital Carrying Capacity	Lifson	2024	Journal of Guidance, Control, and Dynamics	<ul style="list-style-type: none"> No OSC funding, but the same topic Lifson et al. 2024 Method for generating closely packed orbital shells and orbital capacity implications
6.03 Orbital Carrying Capacity	Lifson	2024	Journal of Spacecraft and Rockets	Lifson et al. 2024 Low-Earth-Orbit Packing Implications for Orbit Design and Policy

Conference Technical Papers (Poster/Talk)

Study	PI	Type	Year	Conference	Files & Comments
Systems Engineering	Wolff	Poster	2025	AMOS	<ul style="list-style-type: none"> Wolff et al (2025) Conjunction Assessment Performance and Operational Comparisons between the USSF Mission Delta 2 Conjunction Analysis System and the Traffic Coordination System for Space (TraCSS) Poster?
1.04 Consolidated LEO Pathfinder	Magnus	Poster	2024	AMOS	<ul style="list-style-type: none"> Magnus et al. (2024) The TraCSS Consolidated Pathfinder - Leveraging Commercial Capability in LEO Poster (pdf)
1.04 Consolidated LEO Pathfinder	Hejduk	Talk	2024	IAC	<ul style="list-style-type: none"> Hejduk et al. (2024) The TraCSS Consolidated pathfinder Leveraging Commercial Capability in LEO Slides (pdf)
2.01 CA Disambiguity Study	Hejduk	Panel	2024	ASCEND	<ul style="list-style-type: none"> Panel discussion: Conjunction Assessment Performance Metrics and Current Performance Trends <ul style="list-style-type: none"> Led by Sandy Participants: Matt, Denna Baker (LeoLabs), MJ (ExoAnalytic), Belinda Marchand (Slingshot), Dan Oltrogge (COMSPOC) Slides (pptx) No paper
2.01 CA Disambiguity Study	Murphy	Talk	2024	AAS/AIAA Astrodynamics	<ul style="list-style-type: none"> Murphy et al. (2024) Assessment of data quality requirements for US space traffic management Slides (pdf)
2.02 Screening Volume Size	Ravago	Poster	2025	AMOS	<ul style="list-style-type: none"> Paper: Ravago et al (2025) Evaluation of Screening Volumes Used in Conjunction Assessment Poster (pdf) Slides (pptx), was a backup talk
5.01 COLA Gap Risk Quantification	Abraham	Talk	2025	AAS/AIAA Astrodynamics	<ul style="list-style-type: none"> Abraham et al (2025) Quantifying the collision risk of large deployments of space objects during the COLA gap Slides (pdf)
6.01 EU SST - TraCSS Service Comparison	Borowitz	Poster	2024	AMOS	<ul style="list-style-type: none"> Borowitz et al 2024 A Technical Comparison of the Public SSA Services in the United States and the European Union Poster (pdf)
6.01 EU SST - TraCSS Service Comparison	Borowitz	Poster	2024	IAC	<ul style="list-style-type: none"> Borowitz et al 2024 Comparison of European Union Space Surveillance and Tracking and TraCSS

6.02 US - EU SST Exchange for Improved Orbital Safety	Hoots	Poster	2023	AMOS	<ul style="list-style-type: none"> • Hoots et al. 2023 US-EUSST Data Exchange for Improved Orbital Safety
6.02 US - EU SST Exchange for Improved Orbital Safety	Hoots	Talk	2024	AAS/AIAA Astrodynamics Specialist	<ul style="list-style-type: none"> • Hoots et al. 2024 International Sharing of Satellite Tracking Data for Improved Orbital Safety • Slides (pdf)
6.02 US - EU SST Exchange for Improved Orbital Safety	Hoots	Talk	2024	IAC	<ul style="list-style-type: none"> • Baral et al 2024 International Sharing of Satellite Tracking Data for Improved Orbital Safety • Slides (pdf)
6.03 Orbital Carrying Capacity	Lifson	Talk	2024	Workshop on Debris Modeling & Remediation	<ul style="list-style-type: none"> • No technical paper • Slides (pdf)
6.03 Orbital Carrying Capacity	Lifson	Poster	2024	AMOS	<ul style="list-style-type: none"> • Lifson et al. 2024 Development of Reference Scenarios and Supporting Inputs for Space Environment • Poster (pdf)
6.03 Orbital Carrying Capacity	Lifson	Talk	2024	International Association for Advancement of Space Safety	<ul style="list-style-type: none"> • Lifson 2024 A Framework for Compatible-by-design Orbit Coordination in LEO • Slides (pdf)
6.03 Orbital Carrying Capacity	Lifson	Talk	2024	IAC	<ul style="list-style-type: none"> • Lifson et al. 2024 Methods for Generating Publicly Releasable Modelling Inputs to Support Development of Reference Space • Slides (pdf)
[EXTERNAL] STM Behavior Norms and Simulation	Borowitz	Poster?	2023	AMOS	<ul style="list-style-type: none"> • Gunter et al. 2023 An Investigation into Transecting Satellites in Future Space Traffic Management Scenarios