TASTI 2026 Poster Area Floor Plan







TASTI 2026 Poster Board Layout

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TASTI 2026 Poster List

0101 Launch Systems and Propulsion		
Presenter Name	**Paper No.**	**Paper Title**
Jhuo-Lun Lee	T0002	Toward Indigenous Advanced Materials Technology: Additively Manufactured High-Entropy Alloys for Space Propulsion Applications
Chien Ming Chen	T0013	Controller Gain Tuning for Main Throat Valves in Hybrid Rocket Engine: Implementation in Cold-Flow Verification
Jing-Wei Chen	T0017	Research on Mechanism Design and Collision Avoidance Attitude Optimization of the Pipeline Swing Arm System of SR400 Launch Vehicle
Huan Yung Liao	T0021	Development of High-Strength 7xxx Aluminum Alloy for Aerospace Applications
Ping-Hsin Wu	T0022	Design of Buckling Test Hardware for 1.1-Meter-Composite Cylinder in Launch Vehicles
Po-Chih Huang	T0027	Buckling Test and Analysis of the 1.1 Meters Diameter Composite Cylinder Test Article
Hian-Kun Tenn	T0046	From Planning to Operational Readiness: Development of an IMU Test and Calibration Facility with a Two-Axis Rate Table
Chun-Chih Chen	T0048	Development and Implementation of a Payload Tracker for a Sounding Rocket
Hung-Chang LIN	T0058	Launch Vehicle Design and Analysis Framework: Automated Structural Modeling, Analysis, and Sizing
Pei-Yuan Sun	T0060	Design and Development of Fairing Separation System
Bo-Syun Chen	T0061	Numerical Analysis of Solid, Cohesive Zone Model, and Tiebreak Methods for Adhesive Interfaces
Tzu-Yu Lin	T0063	Laying the Foundation of Liquid Rocket Engine Injector Development – Progress on Development of Universal Spray Characterization Platform
Tzu-Yu Lin	T0064	Foundation for Rigor – A Systematic Approach to Developing and Commissioning TASA's First Dedicated Turbopump Test Bench
Ting-Wei Chen	T0069	Dynamic Behavior and Structural Strength Analysis for Sounding Rocket Launch Hook

0101 Launch Systems and Propulsion		
Presenter Name	**Paper No.**	**Paper Title**
Hsiao-Han Chiu	T0076	Effect of Resin Content on the Interlaminar Shear Strength of Carbon–Phenolic Composites
Yuan-Sen Tsai	T0087	Carbon Fabric Impregnated with a Silica Nanoparticle-Modified Resin
Shihting Yang	T0117	Development Status of the TASA Liquid Rocket Engine Turbopump: System Design Approach
Yen-Cheng Lin	T0122	Effects of Ignition Frequency on Thermal Accumulation and Discharge Characteristics of a Vacuum Arc Thruster with a Multilayer Insulator
Nick Chung	T0124	Conceptual Design and 6-DoF Feasibility Assessment of a DIVER-Based Controlled-Recovery Solid Rocket Vehicle
Cheng-Yang Yeh	T0156	Inorganic Ablative Material Applied to Rocket Engine Nozzle
Wen-Hsien Tseng	T0166	An Application of Articulated-Body Algorithm to Multibody Flight Dynamics Simulation
Chung-Hao Yang	T0168	Strength Analysis And Test of SRM Composite Structure Under Internal Pressure Loads
Kuan Ting Lai	T0181	Numerical Prediction of the Hammerhead Payload Fairing Aerodynamic Vibration Environment
Yun-Ning Chang	T0213	Optimality-Residual-Driven Adaptive Landing Guidance with a Thrust-Vectoring UAV Validation Platform
Yen-Cheng Chu	T0256	A Physics-Based Reduced-Order Model of Coupled Four-Vane Jet-Vane Aerodynamics Identified from CFD
Chia-Ming Chan	T0273	Design and Flow Field Analysis of a Supersonic Solid-Fuel Ramjet with a Flush-Mounted Inlet
Yan-Jun Chen	T0325	Development and validation of a D60-based surrogate and detailed chemical kinetic mechanism for rocket fuel combustion
Yi-Syuan Wu	T0326	Three-Dimensional Two-Phase Simulation of LOX/RP-1 Spray Combustion in an F-1 Rocket Engine with Multi-Component Skeletal Chemistry

0102 Satellite Design, Payloads, and Subsystems		
Presenter Name	**Paper No.**	**Paper Title**
Kao Chieh Tseng	T0001	Development of Random Vibration Test Specifications for Satellite Components Using Vibration Response Spectrum and Optimization Methods
Shu-Chao Hsieh	T0015	CCSDS-Compliant Modem Design for X-Band Phased Array Transmitter
Hsien-Che Cho	T0016	Modeling and Validation of a Flexible-Appendage Satellite System Using Lumped-Parameter and Multibody Approaches
Peng-Yu Chen	T0024	A High-Efficiency Framework for Satellite Data Ingestion Subsystems Architecture Design and Performance Analysis
Li-Yan Chen	T0025	FORMOSAT-9A Satellite Worst-Case Analysis of Mass Properties Using the Monte Carlo Method
Yuwen Chang	T0026	Development of a Passive Solar Panel Deployment Mechanism for CubeSats
TZUHUI YU	T0029	Thermal Performance Simulation of Embedded Constant Conductance Heat Pipe Panel Designed for Periodic Heat Source
Chung-Sheng Lin	T0033	Experimental PNT and Communication Payloads
Chih-hsun Lin	T0036	Development of an Advanced Payload Prototype for Space Radiation Measurement at the Taiwan Space Agency
Yung-Chieh Hsu	T0044	Formasat-9 Structure Test Model Validation Using Acoustic Test
TSAI-YEN HUANG	T0066	Study on the Influence of Space Environment on a CubeSat
Kun-Chien Hung	T0067	Coordinated Fault Containment via Criticality-Aware Task Partitioning in Asymmetrically Redundant Spaceborne SAR Processors
Hsun-Ya Hou	T0075	Delay-Aware Joint Satellite Handover and Dynamic Link Adaptation (ACM) for DVB-S2 in LEO Networks
Chun-Yu Chang	T0077	Development and Validation of a CubeSat Communication System

0102 Satellite Design, Payloads, and Subsystems		
Presenter Name	**Paper No.**	**Paper Title**
HENG-JIE LU	T0084	Design of a GNSS Positioning Tracker for Scientific Sounding Rocket Applications
Wei-Che Chang	T0091	Integrated Process Development and Preliminary Validation of a Taiwan-Manufactured Silicon Carbide Mirror for Space Optical Payloads
Mei-Zhen Lai	T0092	Study on the Influence of Surface Thermo-Optical Properties on a Sun-Facing Panel
Tzu-Huan Cheng	T0094	Quantifying Cut-Edge Recombination in Space Triple-Junction (InGaP/InGaAs/Ge) Solar Cells: Principles, Luminescence Diagnostics, and Efficiency Impact
Tzu-Huan Cheng	T0095	Quantifying Dark and Bright Points in EL and PL Images of Space Solar Cells for Long-Term Reliability
Wei-Che Chang	T0098	Development of an HF-Based Chemical Etching and Cleaning Process for Large-Aperture Lightweight Mirrors
SHIH-TIEN LIAO	T0105	An Experimental Study of Benchmark Performance Indices for Spacecraft Onboard Computers
Trong-An Bui	T0114	Reference-Guided Selective Tile Compression for Nanosatellite Earth Observation: Engineering-Model Measurements and an Onboard Routing Policy
Cheng-En Ho	T0116	Formosat-8A Satellite Thermal Model Correlation
Yen-Ting Chen	T0126	FORMOSAT-8C TASA Star Tracker Thermal Analysis
Kai-Sheng Chen	T0127	Study on the Removal of Subsurface Damage in Space Optical Mirrors Using Optimized Acid Etching
Hsiang-Peng Chen	T0133	Modernizing Procedure Execution in a Satellite Ground Control System: Migrating from an Embedded Jython Interpreter to a Debug-Adapter-Protocol-Based CPython Runtime
Chung-Chun Ma	T0134	Modeling and Identification of Reaction Wheel Micro-Vibrations for Satellite Jitter Analysis
Chia Wen Hsu	T0135	Design of a FS9 Satellite Power Control Unit for High Power Satellites
Ping-Wen Teng	T0136	Feature Importance-Based Identification of Fixed Failure Time Intervals for GPS Satellite Tracking Loss

0102 Satellite Design, Payloads, and Subsystems		
Presenter Name	**Paper No.**	**Paper Title**
Chih-Hsuan Shih	T0139	Development of Hexagonal Segmented-Mirror Manufacturing Technology for Future Large-Aperture Space Telescopes
Wei-Che Chang	T0140	Integrated Process Development and Preliminary Validation of a Taiwan Manufactured Silicon Carbide Mirror for Space Optical Payloads
Chih-Hsuan Shih	T0141	Proton Irradiation Effects on Constituent Materials of High-Reflectivity Optical Coatings for Space Remote Sensing
Tan-Ying Yu	T0149	Design and Verification of a self-produced Collimator COL 75 with High Uniformity and Low Stray Light: Application to MAPS-D Payload Integration and Testing
Yao-Chung HSU	T0155	The Flight Demonstration of the FORMOSAT-8A High-Test Peroxide Propulsion System and the Lessons Learned
Chi-Yun Chen	T0161	Optical Design and Performance Analysis of a 2U-Class VIS-NIR Dyson Hyperspectral Imaging Spectrometer
Fong-Yu Chen	T0170	Analysis and Comparison of Solar Battery Charging Regulator Architectures
Jia Cheng Li	T0174	Improving Satellite Image Acquisition Performance Through Enhanced Attitude Estimation
Chung Hsun Chang Chien	T0180	Low-Thrust Eccentricity/Inclination Vector Separation for InSAR Orbit Tube Maintenance
NaiHao Chiang	T0182	Miniaturization and Precision Enhancement of an Optomechanical Test Bench for Satellite Laser Communication FSMs
Chen-Yueh Chung	T0187	Architecture Optimization and I/Q Imbalance Compensation for Space-Grade X-Band High-Data-Rate Transmitters
I-Young Tarn	T0188	X-band 700W Solid State Power Amplifier Engineering Qualification Model for Satellite SAR Payload
KueiFu Lai	T0189	Component-Level Characterization of a Compact Fast-Steering Mirror Testbed for Satellite Optical Communication Payloads
Yi-Hang Chuang	T0190	Hybrid PI–Modified Super-Twisting Sliding-Mode Control of a Strain-Gauge Integrated Piezoelectric Fast Steering Mirror for Free-Space Optical Communication

0102 Satellite Design, Payloads, and Subsystems		
Presenter Name	**Paper No.**	**Paper Title**
Yi-Gui Chen	T0194	Software-Based Digital Edge Detection and Pulse-Width Measurement in LabVIEW on Windows: Performance Optimization and Evaluation Without Additional FPGA or Microcontroller Hardware
Shing-Horng Liou	T0206	Iterative Distortion Calibration and Effective Focal Length Refinement for the TASA Orion Star Tracker
Chi-Yun Chen	T0209	Optomechanical Design and Assembly of the NCU OCT for CubeSat Optical Communications
Shiang Yan Peng	T0212	An EMVA 1288 Measurement Wizard for Image Sensor Characterization in Space Applications
Yi-Hsuan Hsieh	T0215	Implementation of the Satellite Operation and Control System for the FORMOSAT-8A Mission
Shiang Yan Peng	T0216	Design and Integration of a Quantitative Focus Assessment Platform for a Star Tracker Camera
Yi-Yun Lai	T0217	In-Orbit Performance and Data Analysis of PEARL-1A & PEARL-1B
Pin-Wen Chen	T0218	System Verification of an SDR-Based AIS Payload for the SAISI CubeSat Mission
Shih-Fang Liao	T0219	In-Flight PSF and MTF Estimation of FORMOSAT-8A Using a Ground-Based Directional Light Source
Chieh-Fu Chang	T0223	Lessons Learned and Improvement of Optical Payload EU in FORMOSAT-8
Yi-Ting Lee	T0224	Satellite Alignment Measurement Using a FARO Arm Before and After Dynamic Testing
Meng-Chen Lin	T0230	Stability-Focused Star Catalog Generation for the FORMOSAT-8 Star Tracker
Tzu-Lun Huang	T0233	Development of a Closed-Loop Inverted-Pendulum Thrust Stand System for Millinewton-Level Hall-Effect Thrusters
Po-Yi Lee	T0236	CMM-Based Precision Alignment and Integration of an Offner Hyperspectral Imaging Spectrometer
Chris Li	T0240	Design of a Multi-Channel Charge Sensitive Amplifier ASIC for the Multiple Particle Analyzer

0102 Satellite Design, Payloads, and Subsystems		
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TIEN-NI CHIANG	T0241	Development of an 8U Technical Demo Satellite for In-Orbit Solar Cell Evaluation and Technology Demonstration
Ting-Yi Lu	T0251	VEM Damping Value Analysis and Verification Comparison Study
Yu-Hsing Lai	T0261	Design a decenter adjustment fixture for alignment of the corrector lens fixed by triangular mount
Yan-Zhen Huang	T0263	System Integration of the Compact Radiation Probe (CRP) for a CubeSat Platform
Yi-Mei Hung	T0265	A Risk-Informed Program Management Framework for Five-Year Mission-Life Assurance of the FS8-HRx (High Resolution Experimental) Satellite Program
You-Yun Ma	T0276	Development of a Laser Blackening Process for Stray Light Suppression
Hsing-Yu Wu	T0277	Development Roadmap of an Integrated Data-Driven and AI-Assisted Manufacturing Infrastructure for Large-Aperture Space Optics
Li-Siang Shen	T0278	Optical Design of an 800 mm Aperture Wide-Field Korsch Three-Mirror Telescope for High-Resolution Earth Observation
Po-Ming Lin	T0281	Development of a Precision Assembly and Alignment Method for a Three-Mirror Anastigmat Telescope with Ultra-Precision-Machined Aluminum Mirrors
Li-Siang Shen	T0282	Space-Program-Driven Development of Precision Optical Manufacturing Capability and Industrial Upgrading in Taiwan
Tsung-Ping Lee	T0283	Investigation of Laser-induced Surface Microstructure for Stray Light Suppression in Optical Systems
Chun-Han Chou	T0284	Opto-Mechanical Design and Stray Light Analysis of a Multi-Spectral Optical Payload
Yi-ying Wu	T0291	FORMOSAT-9 Satellite Bus Structure Analysis
Jhen-Syuan Huang	T0293	Development of an 80 K Miniature Split Stirling Cryocooler for Satellite Thermal Control

0102 Satellite Design, Payloads, and Subsystems		
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Chien Tzu Lin	T0300	Study on Attitude Cross-Comparison and On-Orbit Verification Methods for Star Trackers
I-CHIEH HSU	T0302	Development of a Laboratory-Fabricated Silicon Solid-State Detector for Space Applications
Yu-Cheng Chang	T0306	In-house development of a material outgassing test system based on the ASTM E595 standard
Jia-Ting Lin	T0311	Gemini-Pollux: Early In-Orbit Results and Operational Lessons from a University 3U CubeSat

0103 AI, Autonomy, and Robotics in Space		
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Jia-Kai Yao	T0057	LLM-Enhanced Rule-Based Scheduling System for Aerospace Project Management
Li-Mei Chen	T0106	Application of AI to STC Software System Migration
Hsin-Hung Lin	T0108	Automated Wavefront Nulling via PI Closed-Loop Control — Sub-24 Second Convergence for Satellite Optical Payload Alignment
HUNG-YUEH HSIEH	T0150	Performance Comparison of Visual Target Configurations for an Image-Based Tracking System for Autonomous Aerial Vehicle Landing
YU-FENG CHEN	T0172	Testing Study of AI RAG for Enterprise Knowledge Base
BING-CHEN LAI	T0267	Ultra-Low-Power On-Board Machine Learning for Satellite Image Processing on CubeSat
Yu-An Hu	T0301	Automated 3D Scanning with Robotic Arm Assistance
David Fornos	T0315	Consensus-Based Decentralized Scheduling of Sequential Observation Tasks for Autonomous Earth-Observing Constellations

0201 Earth Observation and Remote Sensing		
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Yu-Lin Tsai	T0019	A Modular Software Framework for Satellite Image Simulator
Yi-Keng Chen	T0023	Assessment of Sentinel-1 Acquisition Geometry and Polarization for Coastal Siltation Boundary Delineation
Chien-Ying Yang	T0031	CI/CD Pipeline Design for the FS9 IPS Data Processing Subsystem
Wen-Hao Yeh	T0032	Current status of Triton retrieval ocean surface wind speed products
Min-Che Hsieh	T0039	Multi-Satellite Scalable Architecture and Spatial Information Integration for the FORMOSAT Image Product Operation System
Syota Sasaki	T0043	Accelerating Open-Source InSAR Time-Series Analysis on Consumer GPUs: A PyTorch-Based Network Inversion Solver for MintPy
Lin-Kai Chiu	T0053	Time-Domain Sample-Wise Complex Multiplication for Chirp Signal Equalization in a Synthetic Aperture Radar Transmitter Under Power Amplifier Non-Linearity
Kun-Chien Hung	T0074	An End-to-End GeoAI Framework with LLM-Based Automated Reporting for Efficient SAR Maritime Object Detection
Tee-Ann Teo	T0080	Geometric Calibration of SAR Satellite Imagery Based on the Range-Doppler Model
Cin-Rou Hsu	T0085	Integration of AIS Data and AI-Based SAR Ship Detections for Enhanced Maritime Situational Awareness
Brandon Ling-xuan Chen	T0100	Altitude-Dependent Geolocation Effects on Typhoon-Relative FORMOSAT-7/COSMIC-2 Radio Occultation Sampling
Shih-Shuo Tung	T0109	Convex Optimization-Based PAN-Sharpening for FORMOSAT-8A Imagery
Shih-Shuo Tung	T0110	Omega-K Algorithm Modularization and Acceleration for Spotlight SAR Focusing
Shih-Ping Chen	T0121	Inland Waterbody Detection from TRITON GNSS-R Delay-Doppler Maps
Li-Jen Hsiao	T0138	Preliminary Design of a Meter Class Collimator for Ground Verification of Large Aperture Space Optical Telescopes

0201 Earth Observation and Remote Sensing		
Presenter Name	**Paper No.**	**Paper Title**
Kahnbao Wu	T0144	A Morphology-Based Continuous Wave Interference Detection Method for GNSS-R Delay-Doppler Maps
Tee-Ann Teo	T0148	Digital Surface Model Generation from FORMOSAT-8A In-Track Stereo Images
Hsueh Lin Tung	T0151	Development and Analysis of X-Band Microstrip Antenna Arrays for UAV SAR Systems
De-Ming Wang	T0153	Vision Transformer-Based Sea Surface Wind Field Retrieval from SAR Imagery in Taiwan's Offshore Waters
Fang-Hao Hsu	T0191	Evidence-Gated Multi-Source 3D Urban Reconstruction with UAV-Referenced Facade Texturing
Chih-Hung Chuang	T0192	FPGA Implementation of SR-LUT for Onboard Satellite Image Super-Resolution on AMD Versal
Jhih-Siang Liu	T0200	Auditing a Two-Date SPOT-6 Coastal Image-Processing Workflow: Evidence Boundaries in the Kinmen–Xiamen Area
Shu-hung Chou	T0211	FPGA-Based Onboard Edge AI for Earth Observation: Occlusion-Aware, Feature-Integrated Multi-Object Tracking on a Zynq UltraScale+ MPSoC
Changshiu Jiang	T0227	Automated Optical Polishing and Data-Driven Manufacturing for Space Optical Mirrors
Hsing-Yu Wu	T0228	Star-Based End-to-End Image Quality Verification for Large-Aperture Space Optical Systems
Yu-Jun Zheng	T0232	Evaluation of SMAP Soil Moisture and Vegetation Optical Depth at Xitou Forest, Taiwan
Shao-Yang Lien	T0235	Research on Atmospheric Turbulence Modeling for Optical Remote Sensing Image Compensation Using Communication Probe Technology
Ying-Xuan Chen	T0237	CarbonSAR: Estimating Forest Growing Stock Volume in Taiwan Using ALOS-2
YI-FENG HUANG	T0250	Radiometric Terrain Correction Applied for L-Band SAR Forest Biomass Estimation Using ALOS PALSAR
WAN-RU LIEN	T0262	FORMOSAT-8: Image Quality Verification and Multi-Scenario Application Feasibility

0201 Earth Observation and Remote Sensing		
Presenter Name	**Paper No.**	**Paper Title**
Yi hsin Chung	T0264	A Study of Polar Glacier Time-Series Monitoring and Regional Meltwater Disasters Using FORMOSAT satellite Imagery
Cheng-Han Wu	T0266	FormoSR: Efficient Kernel-Based Reconstruction for FORMOSAT-8A Super-Resolution
Ren-Jhih Chen	T0268	CCSDS-Compliant S-Band Telecommand and Telemetry Ground Transceiver
Pin-Yi Lee	T0295	Short-Term Real-Time Cloud Cover Forecasting for Optical Satellite Scheduling System
Yen-Ling Lee	T0299	Process Design for Scheduling Automation between PSS and DMS in FORMOSAT-8 Operations

0202 Navigation, Positioning, and Timing (GNSS)		
Presenter Name	**Paper No.**	**Paper Title**
Chang-Le Lee	T0020	The Development of Redundant IMU/GNSS Integrated Navigation System Using a Federated Filter with Different Fusion Strategies for Land Vehicular Navigation Application
Tzu-Pang Tseng	T0118	Estimation of Antenna Phase Center Variation for FORMOSAT-7 Satellite
Tzu-Pang Tseng	T0119	Phase Center Estimation Using Differential Single Difference Observations
Yen-Chin Lu	T0163	Real-Time GNSS Orbit Determination
Tzu-Yao Hung	T0231	Zero-Baseline Analysis of GNSS Receiver Clock Stability and Time Synchronization
Kuan Ming Chen	T0272	Baseband Anomaly Diagnostics and Signal Quality Monitoring of GPS Spoofing Attacks Using SDR and TEXBAT
Yi-Ting Chen	T0309	NavPod: A Portable GNSS Observation Network for Continuous Ionospheric Monitoring

0204 Climate Monitoring, Disaster Management, and Sustainability Applications		
Presenter Name	**Paper No.**	**Paper Title**
KE HSIN HUANG	T0103	Satellite Imaging for Rapid Disaster Situational Awareness and Decision Support – Case Studies in Sentinel Asia and TASA
Shu-Ya Chen	T0280	Impact of GNSS Data Assimilation on Tropical Cyclogenesis Prediction

0205 Other Innovative Applications		
Presenter Name	**Paper No.**	**Paper Title**
Hung-Yuan Chang	T0037	Demonstration on improving the life time of heaterless hollow cathode by TASA's ignitor
Hsuan-Cheng Wei	T0129	Evaluation of Model Compression Performance for Different Model Sizes Using Vitis AI
Michael Ting-Chang Yang	T0186	HD-trend v2 – A New Housekeeping Data Trending System for Formosat Missions
YI-HSUAN CHOU	T0214	Proton Single-Event Effects Testing and Geant4 Simulation Analysis of Solid-State Drives
Kun Nan Wu	T0253	Feasibility Study of a Reusable CubeSat Support System
Hsiao-Min Wu	T0279	Development of an HF-Based Chemical Etching and Cleaning Process for Large-Aperture Lightweight Mirrors

0301 Space Debris Mitigation and Remediation		
Presenter Name	**Paper No.**	**Paper Title**
Hung-Yu Tao	T0070	Wood- and Natural-Fiber-Based Biocomposites for Space Debris Mitigation: Evidence, Constraints, and Scalability

0303 Long - Term Orbital Sustainability		
Presenter Name	**Paper No.**	**Paper Title**
Chih-Han Yu	T0104	Low-Thrust Orbit Simulation Based on Gauss's Variational Equations

0303 Long - Term Orbital Sustainability		
Presenter Name	**Paper No.**	**Paper Title**
YunTing Chen	T0123	Preliminary Analysis of GPS Data for Satellite Orbit Determination and Prediction
HUNG-JUI CHEN	T0157	Comparative Assessment of Atmospheric Density Models for CubeSat Orbital Decay Prediction

0304 Space Situational Awareness / Space Domain Awareness		
Presenter Name	**Paper No.**	**Paper Title**
Yu-Ling Lin	T0225	A Study of Satellite Deployment Methods Based on TLE Data
Cheng-Hao Yen	T0285	Frozen Receiver-Aware Interference Detection for DVB-S2 with Session-Level USRP Evaluation
Chih-Chien Liu	T0296	Empirical Calibration of the TLE-Derived Semi-Major-Axis Noise level for LEO Maneuver Detection Using DORIS-Certified Quiescent Arcs
Yu-Ling Lin	T0303	Comparative Analysis Across Multi-Source Satellite Conjunction Warnings
Chi-Tao Lee	T0307	Integrating Space Situation Awareness with Distributed Satellite Communication Frameworks for Dynamic Electromagnetic Shadowing and Network Resilience
Bernadette Joy Detera	T0308	Improving Safety of Uncooperative Rendezvous and Proximity Operations

0405 Lunar Exploration Instrument		
Presenter Name	**Paper No.**	**Paper Title**
Yu-Rong Cheng	T0041	Operation modes of the All-sky Electrostatic Analyzer for Lunar Surface Plasma Measurement
Sheng-feng Lin	T0158	Design of a Wide-Angle 3× Inner-Zoom Lens for Multifunctional Spaceborne Imaging Instruments
Ping-Ju Liu	T0222	Ion Beam Calibration Study of an All-Sky Electrostatic Analyzer for Lunar Plasma Measurements
Hsin-Yu Yu	T0243	Trigger-Based Raman Quality Control for Autonomous Lunar Manufacturing

0406 Science Payload		
Presenter Name	**Paper No.**	**Paper Title**
Chao-Yen Chen	T0045	RFI and SEU Detection in TRITON Delay-Doppler Map
CHENG-TIEN CHEN	T0221	Analog Front-End Circuit for the Multiple Particles Analyzer of Formosat-8C

0501 Space law, Regulation, and Norms of Behavior		
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Yachi Yang	T0175	Legal Analysis of Satellite Frequency Priority under the International Telecommunication Union (ITU) Framework
Jie-Yun Hung	T0234	Recent Developments in Taiwan's Space Law and Regulatory Framework
Feng-Tai Hwang	T0259	A comparative study of SSA development in ASEAN nations
Jiun-Ru Chiang	T0269	Building a Space Law Roadmap for Taiwan: Updating Taiwan's Regulatory Framework in Response to Technological Development

0504 Space for National Resilience		
Presenter Name	**Paper No.**	**Paper Title**
TSENGHAO TSAO	T0005	Satellite Data Governance for National Security Resilience: An Engineering-Legal Approach to AI-Enabled Earth Observation and Taiwan's Space Development Act
Chih Hui Hsu	T0088	Vision-based UAV Interception via LSTM Line-of-Sight Angle Prediction and Predictive Proportional Guidance
PeiLin Wu	T0143	The Role of On-board AI in Remote Sensing Satellites for Strengthening National Resilience
Fan Su	T0177	Taiwan's Communication Resilience Strategy: Current Status and Future Challenges
Che Tan	T0292	How can Taiwan Develop an Operational SSA System for National Resilience? Governance Gaps and Capability Development

0603 Space Economics and Business Models		
Presenter Name	**Paper No.**	**Paper Title**
Ying-Ci Hsiung	T0052	Conceptual Design of a Digital Project Management Interface for Adaptive Rocket Development
Yueh-Chen Tsai	T0059	Work-in-Progress Limits as Schedulable Capacity in Multi-Project Launch-Vehicle Engineering
JuHsin Lai	T0176	From Industrial Capabilities to Global Market Engagement: Taiwan's Space Industry and International Exhibition Strategy
Lee Chi-Lung	T0179	Patent Prosecution Strategies for Space Optical Components Based on Office Action Responses: A Case Study of a Granted U.S. Star Tracker Patent

0701 Space Education and Workforce Development		
Presenter Name	**Paper No.**	**Paper Title**
Alfred Bing-Chih Chen	T0169	SECEP: A Mission-Based Educational CubeSat Framework for Space Education and Workforce Development
Tzu-Lun Huang	T0246	Design and Development of a 3D Attitude Visualization and Interactive Space Education System for an Educational CubeSat
Tzu-Lan Wang	T0290	Diverse Practices and Collaboration in Informal Space Education: An Comparison of Government, NGO, and Social Media Account Cases

0702 Outreach, Capacity Building, and Emerging Space Nations		
Presenter Name	**Paper No.**	**Paper Title**
Kang-Shian Pan	T0271	Teaching Space Sustainability in Introductory Physics: Opportunities and Constraints of a Lecture-Based Enrichment Approach
Fan Su	T0287	Mapping Taiwan’s Space Education Landscape
Yun Hsuan Liu	T0319	Art as a Way of Knowing in Astronomy: Inclusive Knowledge Production in Citizen Science through Art-Based Research