



IAC 2024 INTERACTIVE PRESENTATION COMPETITION SHORTLISTED

First Name	Last Name	IP ID	Title	Speaker Company	Speaker Country
Arturo	Pulido Balderas	81449	Water in-Situ resource utilization for sustainable manned exploration of Mars	Universidad Nacional Autónoma de México (UNAM)	Mexico
Jaxson	Hill	90664	3DOF Air Bearing Platform As A Testbed For A Gecko Gripper Active Debris Removal Mechanism	University of Southern California	United States
Katharine	Larsen	82746	Machine Learning to Improve Two-Line Element Analysis Utilizing Analytic Continuation Propagated Fragments	Embry-Riddle Aeronautical University	United States
Roger	Gutierrez-Ramon	87269	Hitting a moving target – ADRAS-J launch targeting to rendezvous with a derelict resident space object	ASTROSCALE JAPAN Inc.	Japan
Jaclyn	Wiley	82125	Too Hot to Handle? Planetary Protection Concerns for Nuclear Space Missions to Planetary Surfaces	Zeno Power Systems	United States
Ankitha	Kamath	90948	Unveiling Rogue Exoplanets: Swarm CubeSat Telescope	Vellore Institute of Technology	India
Marianna	Rinaldi	90885	Use of Additive Manufacturing technology and Qualification approach in HEPD-02 instrument	Italian Space Agency (ASI)	Italy
Maria Daniela	Graziano	84741	SPECTRE: marine traffic monitoring through an innovative AI-powered multi-sensor multi-mission framework	University of Naples Federico II	Italy
Roger	Huerta i Lluch	89244	Enhancing Precision Agriculture for Woody Crops through Publico-Private Collaboration	Spascat Technologies S.L.	Spain
Darius	Chitu	81127	Empirical correlations and anomalies between geo-ecological factors and skin cancer incidence rates		Romania

András	Mihály	82876	Quantum error correction for quantum satellite-based networks	Budapest University of Technology and Economics	Hungary
Junichiro	Kawaguchi	89927	On a low investment and step-by-step construction of a navigation and traffic control system around the moon	Australian National University (ANU)	Australia
Shunichiro	Nomura	84853	System Design Studies of a Low Earth Orbit Radio-Optical Hybrid Communication Satellite Constellation with a Modularized Simulator	University of Tokyo	Japan
Gabriel Jose	Gutierrez	87159	Eclipsing Boundaries: MiniCOR CubeSat Design for Next-Generation Solar Observation	Argotec	Italy
Jonathan	Hertel	85467	Power optimized Langmuir-Multiprobe-Instrument for the E.T.Pack-F Deorbit Mission	TU Dresden	Germany
Tania	McNamara	80957	QlevEr Sat: demonstrating an edge AI for EO mission on a 2U payload ground model	Universite Grenoble Alpes	France
Gabriele	Redigonda	90961	Space applications at the service of Food Security: policy recommendations	University of Firenze	Italy
Ilham	Suleymanov	85959	Leveraging Satellite Data for Sustainable Urban Development: A Paradigm Shift in Urban Planning	Azerbaijan State Oil and Industry University (ASOIU)	Azerbaijan
Wentao	He	84439	Research on Intelligent Routing for Integrated Satellite-Terrestrial Networks through Autonomous Multi-agent Collaboration	Research Center of Satellite Technology, Harbin Institute of Technology	China
Giulia	Sala	87703	Enhancing Space Mission Planning Efficiency: A Comprehensive Overview of the Argotec Mission Planning Tool and Its Core Component, EAGLE	Argotec	Italy
Alejandro	Sabán	84141	Autonomous Flight Safety System: Embedded Software and Hardware equipment for NewSpace ground and onboard safety	GTD	Spain
Youeyun	Jung	81179	building a digital twin platform; from space missions operations to space traffic management	Korea Aerospace Research Institute (KARI)	Korea, Republic of
Junji	Kikuchi	86587	Trajectory Design of NRHO Transfer with Continuous Launch Window for Logistics Resupply Mission to Gateway	Japan Aerospace Exploration Agency (JAXA)	Japan
Xiaoyu	Fu	84119	Numerical Continuation and Stationkeeping of Quasi-Periodic Quasi-Satellite Orbits around Phobos	University of Liverpool	United Kingdom

Haobo	Kang	85163	enhanced convex optimization strategies in 6-dof non-coplanar orbital maneuver trajectory design	Research Center of Satellite Technology, Harbin Institute of Technology	China
Alexandre	Garus	84023	Receiv'Air - Bypassing of atmospheric attenuation for Space Based Solar Power with an airborne receiver	Thales Alenia Space	Italy
Lorenzo	Vignini	86785	Sustainable Nuclear Energy advancements for Space Exploration and Colonization missions	Thales Alenia Space Italia	Italy
Shunan	Wu	91544	Coupling dynamics and experiment of crawling robot and space structure for on-orbit assembly	School of aeronautics and astronautics, Sun Yat-Sen University Guangzhou	China
Samuel	Feldman	82204	A Levitated Displacement Interferometer Thrust Stand for Characterization of Propellantless Propulsion Concepts	[unlisted]	United States
Xiaoming	Gu	86143	Dynamic characteristics of hydrogen peroxide electric pump during pulse ignition process of hybrid rocket engine	Beihang University (BUAA)	China
Antonella	Ingenito	89631	SOLID MICROROCKETS FOR LOW THRUST APPLICATIONS		
Romain	Caujolle	85175	In-Orbit Demonstration of Robotic Operations on a reusable service module - DEMARLUS	Airbus Defence and Space SAS	France
Angela	Cratere	87381	fpga implementation of convolutional neural networks for improved autonomy and efficiency of next-generation cubesat missions	Politecnico di Bari	Italy
Alejandro	Lazaro	88804	SIROM Standard Interface applicability for hard docking scenarios. Air-bearing test campaign as initial step toward the validation of contact dynamics.	SENER	Spain
Josef	Klevanski	87073	Flight Dynamics Simulation and Aerodynamic Database of a Retro-propulsion Assisted Reusable Launcher within the RETPRO Project	DLR (German Aerospace Center)	Germany
Giulio	Avanzini	88991	A conceptual design tool for preliminary sizing of suborbital transatmospheric vehicles	Università del Salento	Italy
Kevin	Smith	82910	On the Development of RAFTI: A Commercial In-Space Refueling Valve	Orbit Fab Ltd	United States
Maher	Dayeh	89662	A Machine Learning-Ready Data Processing Tool for Near Real-Time Forecasting	Southwest Research Institute	United States
Szymon	Matkowski	83448	Stakeholders' framework, a successful outcome and risk perception factors to define risk tolerability limits for long-term Mars colonies, design and operation.	Nexus Aurora	Poland

David	Todd	86862	Factors affecting spacecraft in-orbit anomalies causing insurance losses	Slingshot Aerospace	United Kingdom
Sri Venkata Vathsala	Musunuri	88107	Contemporary Stance to Space Education Pedagogy in Rural Areas	Polytechnique Montreal	Canada
Roman	Hiby	82573	the earth-moon system with remote sensing in education - implementing lunar and cis-lunar topics into the school curriculum	Ruhr-University Bochum	Germany
Najam	Naqvi	91021	Establishment of National Center of GIS & Space Applications: The First Step towards achieving the UN SDGs through Space	Institute of Space Technology (IST)	Pakistan
Nicolas	Heyn	87774	Free flight re-entry experiment on transpiration cooling heat shield - trace on reus 31	Space Team Aachen e.V.	Belgium
David	Reid	84885	Structural Design, Modelling and Testing of a 2U CubeSat Thermal/Visual Imaging Payload.	University of Bristol	United Kingdom
Dionisis	Tsigalidas	87826	Beyond Robotics' Talos 1 Science Team: Best Performance in Science Task in ERC 2023	Beyond Orbit	Greece
Marcos Francisco	Esparza Posadas	84530	lunar concrete with visual indicator of radiation damage	Universidad Nacional Autónoma de México (UNAM)	Mexico
Paolo	Mangili	82915	Modular Space Manufacturing Concepts and Architectures for a Deep Space Cis-Lunar Infrastructure	University of Houston	United States
Takashi	Mizuguchi	85108	Redefining Human Lunar Habitation through HopShell Volume and Soft Membrane Structures	OUTSENSE inc.	Japan
Marie-Claire	de Bruijn	81946	Life Science beyond Earth: Exploring the Legal Landscape in Outer Space Exploration	University of Cologne	Germany
Caroline	Thro	89581	Questioning the International Legal Framework for a Responsible and Sustainable Space Tourism Activity	Lincoln University	United States
Franziska	Knur	87656	The Recommendations of the COPUOS LSC WG 5TRE on Registering Space Objects Forming Part of a Satellite Constellation	German Aerospace Center (DLR)	Germany
Kohei	Yamaguchi	84546	Near-Earth Asteroid Capture Mission Design Method based on the Orbital Dynamics in the Planar-Circular Restricted Three-body Problem	Nagoya University	Japan
Taishi	Satou	83987	study of size scale effect in the asteroid deflection due to hypervelocity impact	Kyushu Institute of Technology	Japan
Lee	Kin Thong	83770	Exploring the Impact of Non-Central Collisions on the Asteroid Deflection mission	Tsinghua University School of Aerospace	China