



Peers Alley Media

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VIRTUAL EVENT

GLOBAL CONGRESS ON  
**ADVANCED  
SATELLITE  
COMMUNICATIONS  
2023**

NOVEMBER 16  
**2023**

**Theme:** Next-Generation Satellite Communications; Explore the Advancements in satellite technology, including new constellations, high-throughput satellites, and antenna/receiver innovations. Discuss security and resilience, sustainable development, and emerging applications in autonomous vehicles, smart cities, and augmented reality

**ADV. SATELLITE 2023**

<https://advanced-satellite-communications.peersalleyconferences.com/>

Scientific Program

GMT - Greenwich Mean Time

07:45-08:00 Opening Ceremony

Distinguished Speaker Talks

**Sessions:** Satellite Networking | Satellite and Its Applications | Remote Sensing Satellites and GIS | Weather Satellites | Wireless Satellite and Broadcasting | Artificial Intelligence and Machine Learning | Aerospace and Mechanical Engineering | Space Missions | Mobile Satellite Communication Networks | Satellite Communications in Climate Change and Weather Forecasting | Earth Stations, Antennas and User Devices | Cloud Computing, Networking and Storage

08:00-08:20

**Title: Generating High-Accuracy Urban Distribution Maps from SAR Satellite Imageries Utilizing CNN for Short-Term Change Analysis**  
*Shota Iino, Japan Manned Space Systems Corporation, Japan*

08:20-08:40

**Title: Free-Space Optical Communications for Supporting Satellite Networks as The High-Speed Internet Platform from The Space**  
*Ucuk Darusalam, Universitas Nasional, Universitas Siber Asia, Indonesia*

08:40-09:00

**Title: Synthesis of a Three - Degree of Freedom Spatial Parallel Manipulator**  
*Srinivasa Rao Pundru, Mahatma Gandhi Institute of Technology, India*

09:00-09:20

**Title: Enhanced Antioxidant Compounds of *Ocimum Basilicum* Seedlings Under Various Acceleration Induced By 2-D Clinostat**  
*Halimeh Hassanpour, Aerospace Research Institute, Ministry of Science and Technology, Iran*

09:20-09:40

**Title: Epidemic Forecasting Based on Mobility Patterns. Lessons Learned from COVID-19 Spreading**  
*Eugenio Cesario, University of Calabria, Italy*

09:40-10:00

**Title: Wave Propagation in Nonlocal Fractional Order**  
*Sangeeta Kumari, Chandigarh University, India*

10:00-10:20

**Title: Investigating the Capability of a Novel Method to Deflect Asteroid Didymos by Incorporated Spacecraft Tractor**  
*Iman Shafieenejad, Ministry of Science Research & Technology, Iran*

10:20-10:40

**Title: Effects of Climate Change and Land-Use on Aquifer in The Future Period Using Groundwater Modeling (Case Study: Hashtgerd Plain)**  
Abolfazl Hanifehlou, *Islamic Azad University, Iran*

**Refreshment Break 10:40-11:00**

11:00-11:20

**Title: Modernization of Developing Countries Within the Global Information Society**  
Vladimir Cherny, *Independent researcher, Russia*

11:20-11:40

**Title: About the Moment System of Equations and Macroscopic Boundary Conditions to Define the Speed and Surface Temperature of the Aircraft**  
Auzhan Sakabekov, *Satbayev University, Kazakhstan*

11:40-12:00

**Title: SDN-based DDoS Attacks Detection and Mitigation using NECOMatter**  
Shahid Naseem, *University of Education, Pakistan*

12:00-12:20

**Title: Satellite Missions and Fractal Properties of Some Space Objects**  
Boyko Ranguelov, *Mining and Geology University, Bulgaria*

12:20-12:40

**Title: Spatial-Temporal Variability of the Calculated Characteristics of the Ocean in the Arctic Zone of Russia by Using the NEMO Model with Altimetry Data Assimilation**  
Konstantin Belyaev, *Russian Academy of Sciences, Russia*

12:40-13:00

**Title: New Cure Rate Survival Models Generated by Poisson Distribution and Different Regression Structures with Applications to Cancer Data Set**  
Mahdy Esmailian, *University of Mohaghegh Ardabili, Iran*

**Lunch Break 13:00-13:40**

13:40-14:00

**Title: Free Space and Deep Space Optical Communication Scenarios**  
Shun-Ping Chen, *Darmstadt University of Applied Sciences, Germany*

14:00-14:20

**Title: Quantum Enhanced Time Synchronisation for Communication Network**  
Swaraj Shekhar Nande, *Technische Universität Dresden, Germany*

14:20-14:40

**Title: New Studies in Random Matrix Theory for GPS Jamming Confronting**  
Omid Sharifi-Tehrani, *Imam Hossein University, Iran*

**14:40-15:00** Title: **Activating Supply Chain Business Models' Value Potentials Through Systems Engineering**  
Jochen Nuerk, *SAP SE, Walldorf, Germany*

**15:00-15:20** Title: **Comparative Analysis of SVM and Decision Tree Algorithms for Heart Attack Prediction: A Dataset Study**  
Asadi Srinivasulu, *BlueCrest University, Liberia*

**Refreshment Break 15:20-15:40**

**15:40-16:00** Title: **Maximum Leaf Greenness is More Associated with Global Vegetation Productivity Than Growing Season Length**  
Xiaojie Gao, *North Carolina State University, USA*

**16:00-16:20** Title: **Strategies for Enhancing the Benefits of Satellites in Meeting Society's Need for Water Security**  
Richard George Lawford, *Morgan State University, USA*

**16:20-16:40** Title: **Effectiveness of Automated Chatbots for Operational Support and Self-Service Based on Fuzzy Classifier for Autism Spectrum Disorder (ASD)**  
Naga Simhadri Apparao Polireddi, *IKON Tech Services / Arizona State University, USA*

**16:40-17:00** Title: **Improving Permanent Magnet Hall Thruster Design with Thermal Modelling**  
Marconi Campos Ferreira Porto, *University of Brasilia, Brazil*

**17:00-17:20** Title: **A Report on the Study for Rational and Reliable Pattern Mining**  
Tongyuan Wang, *TechEngine Plus Com, Canada*

**Closing Remarks**





**BOOKMARK  
YOUR DATES**

**2<sup>ND</sup> GLOBAL CONGRESS ON  
ADVANCED SATELLITE  
COMMUNICATIONS 2024**

**October 2024 | London, UK**

<https://advanced-satellite-communications.peersalleyconferences.com/>