



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS1 (*Radar Technologies-I*)

Session time	Mon, Jul 22 14:00-16:00
Location	Amaryllis
Talk time per paper	15
Chaired by	

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>Analysis of Bowtie Antenna for GPR Applications Using Method of Moments</i> Ananya Dey (IIT Kharagpur & Institute of Radio Physics and Electronics, University of Calcutta, India); Amitabha Bhattacharya (IIT Kharagpur, India) [1571024477]</p>		
2	<p><i>X-Band Aperture Coupled Slotted Waveguide Array for Side Looking Airborne Radar</i> Glorious Raj (CABS Defence Research Development Organization, India); Nitin Kumar (Defence Research Development Organization, India); Ramkumar Raghu (Indian Institute of Science, India); R Rajesh (Center of Airborne Systems, DRDO, India) [1571029942]</p>		
3	<p><i>Drone Based Dynamic Radar Cross-Section (RCS) Measurement Technology</i> Anil Kumar Chepala (Defence Research and Development Organization, India); Srikanth Kota (NSTL, India); Sumanth Polimera (NSTL, India) [1571030270]</p>		
4	<p><i>Experimental Ground Penetrating Radar Using Vector Network Analyzer</i> Aavani Prasanth (Government College of Engineering Kannur, India); Abhinav P (Government College of Engineering Kannur, India); Anagh Ramachandran (Government College of Engineering Kannur, India); Anjana Kanakaraj (Government College of Engineering Kannur, India); Sajith K. (Government College of</p>		

Engineering Kannur, India); Ajith K. K. (Government College of Engineering Kannur, India)
[1571030229]

5 *Cost-Effective Solutions for Beamforming in Miniaturized S-Band Radar Applications*
Amogh G (RV College of Engineering, India); Bhuvan Bharadwaj (RVCE, India); Dheeraj G (R V College of
Engineering, India); Koyram Sathyanarayana Shushrutha (RVCE, India)
[1571030713]

6 *Centralized Multi Sensor Data Fusion Scheme for Airborne Radar and IFF*
Abhishek Kumar (DRDO, India); A Muthukumar (CABS, India); R Rajesh (CABS, India)
[1571029966]

Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS2 (SATCOM Technologies)

Session time	Mon, Jul 22 14:00-16:00
Location	Petunia
Talk time per paper	15

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>Vehicle Motion Emulation for SOTM Test Facility</i> Ushma Vineet Dad (Space Applications Centre, ISRO, India); Siddhant Jain (ISRO, India); Kapil Sharma (Space Applications Centre, India); Sudhir Agarwal (Space Applications Centre, India) [1571031989]</p>		
2	<p><i>A Compact E-Plane Sectoral Waveguide Power Combiner for Ku Band SATCOM Applications</i> Manoj Kumar (Indian Institute of Technology Roorkee, India); Gowrish Basavarajappa (Indian Institute of Technology Roorkee, India) [1571015750]</p>		
3	<p><i>SATCOM Based Learning Management System</i> Dhruvit Chaniyara (Indian Space Research Organisation, India); Rahul Sharma (Indian Space Research Organisation, India) [1571025588]</p>		
4	<p><i>Multi Gigabit Digital Modulator for Satellite Implemented Based on JESD204B Protocol</i> Priyanka Das (Indian Space Research Organization, India); Yogesh Kr (URSC Bangalore, India); Ramalakshmi N (ISRO, India) [1571032039]</p>		
	<p><i>Leveraging mmWave Channel Coding for Enhanced Reliability in 6G High-Throughput Satellite</i></p>		

5 *Communications*
Ambar Bajpai (GITAM University, Bengaluru & IEEE Bangalore Section, India); Nagarjuna Telagam (GITAM University, India)
[1571030527]

6 *Performance Analysis of High Mobility Spatially Correlated MIMO-OTSM Systems for Aerospace and Defence Networks*
Sapta Girish Babu Neelam (Indian Institute of Technology Bhubaneswar & Bharat Electronics Limited, India)
[1571018774]

Comments

IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)



OS3 (Cyber Security/Computing/IT/SE)

Session time	Mon, Jul 22 14:00-16:00
Location	Poinsettia 1
Talk time per paper	15

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>Development of a Critical System Using a Domain Specific Language</i> Ajita Shrivastava (Nuclear Power Corporation of India Limited, India); Arka Pratap Mitra (Nuclear Power Corporation of India Limited, India); Vinita Dungdung (Nuclear Power Corporation of India Limited, India); Deep Singh (Nuclear Power Corporation of India Limited, India) [1571031689]</p>		
2	<p><i>Senspy: An Integrated Network Monitoring and Anomaly Detection System Using Machine Learning</i> Bandaru Jnyanadeep (R. V. College of Engineering, India); Nikunj Mittal (RVCE, India); Srivishnu P N (RVCE, India); Varshith Y (RVCE, India); Mohana Mohana (RV College of Engineering, India); Minal Moharir (R V College of Engineering, India); A. R. Ashok Kumar (Rashtreeya Vidyalaya College of Engineering, India) [1571032094]</p>		
3	<p><i>Clustering of Application Behaviors in Windows Environments</i> Dyutisri Kolli (Defence Institute of Advanced Technology, India); Deepti Vidyarthi (Defence Institute of Advanced Technology, India) [1571025700]</p>		
4	<p><i>CNN Based Haze Removal for Aerospace and UAV Applications</i> Padmadarsan S (APJ Abdul Kalam Technological University, India); Karunnya Biju (College of Engineering Trivandrum, India) [1571031568]</p>		

5

Transforming Wildlife Conservation With AI Integrated Darting Drones

Karthik B (Dayananda Sagar University & Mysuru Zoo, India); Yogesh V (Dayananda Sagar University, India); Tarita Shetty (Dayananda Sagar University, India); Sripad Kulkarni (Dayananda Sagar University, India); J L Srinivas (Mysuru Zoo, India); Prashantha Kumar (Dayananda Sagar University, India)
[1571026121]

Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS4 (*Power/Energy/Power Electronics*)

Session time	Mon, Jul 22 14:00-16:00
Location	Poinsettia 2
Talk time per paper	15

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>Design Evaluation of Pyro Initiator Circuits for Unmanned and Manned Spacecrafts Using Fault Tree Analysis</i></p> <p>Sagnik Dutta (Indian Space Research Organisation, India); Gaurav Yadav (Indian Space Research Organisation, India); Aditya Karan (Indian Space Research Organisation, India); Gowrishankara Ck (Indian Space Research Organisation, India); Geethaikrishnan C. (Indian Space Research Organisation, India); RV Nadagouda (Indian Space Research Organisation, India) [1571032082]</p>		
2	<p><i>Radiation Hardening of Switched-Capacitor Based DC-DC Converter</i></p> <p>Sohini Ghosh (Indian Institute of Technology Kharagpur, India); Kali Pada Bhukta (Indian Institute of Technology Kharagpur, India); Pradip Mandal (Indian Institute of Technology Kharagpur, India); Himanshu Patel (Indian Space Research Organisation (ISRO), India); Vishnukumar D Patel (Space Applications Centre, ISRO, Ahmedabad, India) [1571030806]</p>		
3	<p><i>Enhancing Driving Capability of On-Chip Switched Capacitor Based Converter Using High Speed NRTI Switching Scheme</i></p> <p>Kali Pada Bhukta (Indian Institute of Technology Kharagpur, India) [1571030822]</p>		
	<p><i>Design and Investigation of Integrated Microgrid Based Predictive Control Scheme</i></p>		

4 Sai Sampath Kumar P (SRM Institute of Science and Technology, India); Suresh P (SRM Institute of Science and Technology, India); D Lenine (RGM College of Engineering & Technology, India)
[1571030514]

5 *Multilevel Converter for Sonar Power Amplifier and Its Power Control*
Panchalai V N (NPOL & NITT, India); Aswini Narayanan (Naval Physical and Oceanographic Laboratory, India); Layana Mary (NPOL, India); Akhila M Jayanthan (NPOL, India)
[1571031993]

6 *Review on Underwater Sonar Power Amplifier Technologies*
Panchalai V N (NPOL & NITT, India); Sateesh Kumar Kuncham (NIT, Tiruchirappalli, India); Kumaresan Natarajan (National Institute of Technology, Tiruchirappalli, India); Ramesh R (NPOL, India)
[1571032087]

Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS5 (*Special Session on AI/ML Technologies for SPACE-I*)

Session time	Mon, Jul 22 14:00-16:00
Location	Heliconia 1
Talk time per paper	15

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>Aircraft Detection in Satellite Imagery Based on Deep Learning/AI Techniques and FPGA/SoC Based Hardware Implementation</i></p> <p>Dimple Garg (Indian Space Research Organization & Space Application Centre, India); Dhara Shah (Dhirubhai Ambani Institute of Information and Communication Technology, India); Vaishnavi Chintapalli (Space Applications Centre & ISRO, India); Sandip Paul (SAC, ISRO, India); Ashish B Mishra (Space Applications Centre, India) [1571031223]</p>		
2	<p><i>Seismic Image Retrieval and Classification With Novel Slice Shuffling Data Augmentation</i></p> <p>Saliq Gowhar (National Institute of Technology Karnataka, India); Satyam Agrawal (National Institute of Technology Karnataka, India); M Shashank (NITK, India); Anand Kumar M (National Institute of Technology - Karnataka, India) [1571022548]</p>		
3	<p><i>RS-A2M: Zero-Shot Prompt With Attention-Based Unsupervised Segmentation for Remote Sensing</i></p> <p>Dwijay Bane (Indian Institute of Technology - Delhi, India); Avantika Singh (Indian Institute of Technology - Delhi, India); Manan Suri (Indian Institute of Technology - Delhi, India) [1571030775]</p>		
	<p><i>Real-Time Fatigue Monitoring System in Diverse Driving Scenarios</i></p> <p>Thasnimol Valuthottiyil Shajahan (Indian Institute of Technology, Madras, Chennai, India); Babji Srinivasan</p>		

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|---|--|--|--|
| 4 | (Indian Institute of Technology Madras, India); Rajagopalan Srinivasan (Indian Institute of Technology Madras, India)
[1571030357] | | |
| 5 | <i>SADDLE: Spacecraft Anomaly Detection Using Deep Learning</i>
Ankit Srivastava (Indian Institute of Space Science and Technology, India); Neeraj Badal (Space Applications Centre, ISRO, India); Manoj Bs (Indian Institute of Space Science and Technology, India)
[1571030207] | | |
| 6 | <i>A Novel Approach Using Degradation Representation for Remote Sensing Image Super-Resolution in Real-World Scenarios</i>
Divya Mishra (Ben Gurion University, Israel); Ofer Hadar (Ben Gurion University of the Negev, Israel)
[1571019469] | | |
| 7 | <i>Unsupervised Hyperspectral Image Segmentation: A Novel 3-Dimensional Clustering Methodology</i>
Kanav Avasthi (Nirma University, India); Manav Vakharia (Nirma University, India); Aaryan Chokshi (Nirma University, India); Anuja Nair (Nirma University, Ahmedabad, Gujarat, India); Tarjni Vyas (Nirma University, India); Shivani Desai (Institute of Technology Nirma University, India); Sudeep Tanwar (Nirma University & Institute of Technology, India)
[1571026502] | | |
| 8 | <i>Enhanced Detection of Maize Leaf Blight in Dynamic Field Conditions Using Modified YOLOv9</i>
Kaustubh Suresh Gharat (Sardar Patel Institute of Technology, India); Harshita Umesh Jogi (Sardar Patel Institute of Technology, India); Kaustubh Surendra Gode (Sardar Patel Institute of Technology, India); Kiran Talele (Sardar Patel Institute of Technology, India); Sujata Kulkarni (SPIT, India); Mahesh Kolekar (Indian Institute of Technology Patna, India)
[1571025958] | | |

Comments

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OS6 (*Data/Image/Signal Processing-I*)

Session time	Mon, Jul 22 14:00-16:00
Location	Heliconia 2
Talk time per paper	15

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>Spacecraft Payload Data Processing With In-Memory Concurrent Threads and Data Buffers</i> Aravind Sunil (UR Rao Satellite Centre, Indian Space Research Organisation, India); Narayana Rao G S (UR Rao Satellite Centre, Indian Space Research Organisation, India); Amulya Sri Pulijala (National Remote Sensing Centre, Indian Space Research Organisation, India); Subbaraya Sastry C V R (UR Rao Satellite Centre, Indian Space Research Organisation, India, India) [1571022313]</p>		
2	<p><i>Advancements in Launch Vehicle Acoustic Monitoring: A One-Third Octave Processing Algorithm</i> Rekhanshi Varma (Vikram Sarabhai Space Center, Indian Space Research Organization (ISRO), India); Deepu Roy (Scientist, India); Vidya B (VSSC, India); Nandakishor MM (Vikram Sarabhai Space Center, Indian Space Research Organization (ISRO), India); Finitha C (VSSC, India) [1571025473]</p>		
3	<p><i>WANI - A Text-To-Speech Model for Indian Languages and Beyond for Aerospace Applications</i> Amresh Kumar (DRDO, India); Harshil Gupta (DRDO, India); TM Dhipu (Center of Airborne Systems, DRDO, India); Ramachandran Rajesh (DRDO, India) [1571028654]</p>		
4	<p><i>High SNR Camera Electronics for Ocean Imaging</i> Pradeep Soni (Space Applications Centre, ISRO, Ahmedabad, India); Ashok Kumar (Space Application Centre & ISRO, India); Nilesh B Singal (Space Applicatons Center Ahmedabad, India); Deepak Jain (Space Applications Centre & ISRO, India); Ravi Kumar (SAC ISRO Ahmedabad & SAC ISRO, India); P Nandha</p>		

(Space Applications Centre, ISRO, Ahmedabad, India); Vishnukumar D Patel (Space Applications Centre, ISRO, Ahmedabad, India)
[1571026034]

Predictive Model for Enhancing Water Quality Monitoring Leveraging Satellite Data

5

Prakash P (National Institute of Technology Karnataka, Surathkal, India); Sowmya Kamath S. (National Institute of Technology Karnataka, India); Shrutilipi Bhattacharjee (National Institute of Technology Karnataka, India); U Pruthviraj (National Institute of Technology, India); K Gangadharan (National Institute of Technology, India)
[1571032091]

Military Based Object Detection in Satellite Imagery by Optimising YOLOv8

6

Swati Singh (Indian Institute of Science, India); Rathna G N (Indian Institute of Science, Bangalore, India)
[1571026375]

Recent Advances in Urban Expansion Monitoring Through Deep Learning-Based Semantic Change Detection Techniques From Satellite Imagery

7

Basavaraju K S (National Institute of Technology Karnataka, Surathkal & Siddaganga Institute of Technology, Tumakuru, India); Sravya N (National Institute of Technology, Karnataka, Surathkal, India); Vibha Damodara Kevala (National Institute of Technology Karnataka, Surathkal, India); Shyam Lal (National Institute of Technology Karnataka, Surathkal, India)
[1571030437]

A Walkthrough to Airborne Acoustic Source's Hidden Patterns in Lower and Higher Dimensional Space

8

Anuj Kumar Mishra (Academy of Scientific and Innovative Research & Central Scientific Instruments Organization, India); Ripul Ghosh (Central Scientific Instruments Organisation & Academy of Scientific and Innovative Research, India)
[1571032123]

Comments



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OS7 (*Embedded System/Semiconductor/VLSI Technologies*)

Session time	Mon, Jul 22 14:00-16:00
Location	Tulip
Talk time per paper	15
Chaired by	

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>A Comparison of CMOS and Bi-CMOS Semiconductor Technology for Miniaturized PLL Chip Performance for High Frequency Synthesizers</i></p> <p>Pankaj Sandip Bhavsar (Space Applications Centre, Indian Space Research Organization & Indian Institute of Technology, Bombay, India); Harshita Tolani (Indian Space Research Organization, India); Jolly Dhar (Space Applications Centre, ISRO, India); Cvn Rao (Space Applications Centre (ISRO), India); Nilesh M. Desai (Space Applications Centre, ISRO, India) [1571030492]</p>		
2	<p><i>Design and Realization of RFSoc FPGA Based Multi-Channel Data Acquisition & Digital Beam Former System</i></p> <p>Chinni Prabhunath G (None, India); Shahul Hameed V (Scientist, India) [1571026516]</p>		
3	<p><i>Embedded Data Acquisition and Command Simulator for SAIS Receiver Ground Testing</i></p> <p>Gaurangi Sahay (Indian Space Research Organisation, India); Hemanth Reddy N (Indian Space Research Organisation, India); Yogesh Kr (URSC Bangalore, India); Ramalakshmi N (ISRO, India) [1571029881]</p>		
	<p><i>Morphological Galaxy Classification Using Convolutional Neural Networks on FPGA</i></p>		

4	Rahul Barnwal (IIIT Kottayam, India); Kala S (Indian Institute of Information Technology Kottayam, India) [1571024787]
5	<i>TinyML-On-The-Fly: Real-Time Low-Power and Low-Cost MCU-Embedded On-Device Computer Vision for Aerial Image Classification</i> Riya Samanta (Indian Institute of Technology, Kharagpur, India); Bidyut Saha (Indian Institute of Technology Kharagpur, India); Soumya Ghosh (Indian Institute of Technology Kharagpur, India) [1571030676]
6	<i>Effects of Package Parameter on Millimeter Wave (Ka-Band) Exotic IMPATT Oscillators</i> Debraj Modak (Abacus Institute of Engineering and Management & JIS GROUP, India); Shajith Nair (Adamas University, India); Abhijit Kundu (Chaibasa Engineering College, India); Indranath Sarkar (JIS College of Engineering, India); Karabi Ganguly (JIS College of Engineering, India); Moumita Mukherjee (Professor, India) [1571030783]
7	<i>FPGA Based Variable Scan Rate Generic Stepper Motor Drive Algorithm for mm-Wave Sounder Payloads</i> Rahul Kumar M Dhingani (Space Applications Centre, ISRO, India); Madhav Das (Space Applications Centre, ISRO, Ahmedabad, India); Himanshu Patel (Indian Space Research Organisation (ISRO), India); Saravana B Kumar (Indian Space Research Organisation, India); Chinmay Alpe (SAC ISRO, India) [1571026187]
8	<i>Design and Implementation of Equivalent Time Sampling Scheme on FPGA for Impulse GPR</i> Vipin Prajapati (Space Application Centre ISRO, India); Saravana B Kumar (Indian Space Research Organisation, India); Prateek Kumar (Space Application Centre ISRO, India); Rinku Atulkumar Agrawal (Space Application Centre ISRO, India); Cvn Rao (Space Applications Centre (ISRO), India) [1571026189]

Comments



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OS8 (*Mission Planning/Control & Guidance-I*)

Session time	Mon, Jul 22 14:00-16:00
Location	Hibiscus 1
Talk time per paper	15

Paper	Paper details	Was the paper presented?	Name of presenter
1	<i>Formal Verification of Voting Algorithms for Safety Critical Systems Using Two Approaches</i> Ranjani Krishnan (Vikram Sarabhai Space Centre, India); Ashutosh Gupta (IIT Bombay, India); Nitin Chandrachoodan (Indian Institute of Technology Madras, India); Lalithambika VR (IIT Madras, India) [1571029865]		
2	<i>Minimal Energy Flight Trajectory Planning Towards a Moving Target</i> Dilip Krishnaswamy (QWalks, USA); Maalini Krishna (Cornell University, USA) [1571019271]		
3	<i>Exploring the Dyson Ring: Parameters, Stability and Helical Orbit</i> Teerth Raval (Indian Institute of Technology Hyderabad, India); Dhruv Srikanth (Indian Institute of Technology Hyderabad, India) [1571031949]		
4	<i>Designing A Federated Learning Satellite System to Incentivize Space Situational Awareness and Mitigate Space Debris</i> Gourav Mohanan (Dayananda Sagar University, India); Satthiganahally Vasudev Shrigandha (BE & Ambedkar Institute of Technology, India) [1571030719]		
	<i>AoI-Aware Deep Reinforcement Learning Based UAV Path Planning for Defence Applications</i>		

5	Shilpi Kumari (Indian Institute of Technology (BHU) Varanasi, India); Eshaan Sodhi (Indian Institute of Technology (BHU) Varanasi, India); Dev Gupta (Indian Institute of Technology (BHU) Varanasi, India); Ajay Pratap (Indian Institute of Technology (BHU) Varanasi, India) [1571030516]		
6	<i>Geosynchronous Satellite Pattern-Of-Life Characterization Through Machine Learning-Based Mode Change Detection and Classification</i> Atharva Dehadraya (Indian Institute of Technology Kanpur, India); Vasu Paliwal (Indian Institute of Technology Kanpur, India); Yashika Malhotra (Indian Institute of Technology Kanpur, India); Vishesh Vatsal (SkyServe, India) [1571030832]		
7	<i>High Accuracy Analysis of NavIC Static Kinematic Performance</i> Somnath Mahato (India Meteorological Department, India); Anijt Anjan (India Meteorological Department, India); Ks Hosalikar (India Meteorological Department, India); Mrutyunjay Mohapatra (India Meteorological Department, India) [1571025392]		
8	<i>Performance Prediction of Antenna Control Servo System Based on LSTM Network</i> Nishank Satish (Dayananda Sagar College of Engineering, India); Sajith Menon (Indian Space Research Organization, India); Divyang Arora (Indian Space Research Organization, India); M. Parvathi Devi (Indian Space Research Organization, India); S Santhalakshmi (Indian Space Research Organization, India) [1571026154]		

Comments



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OS9 (SPACE Antennas-I)

Session time	Mon, Jul 22 14:00-16:00
Location	Hibiscus 2
Talk time per paper	15

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>Realisation of Digitised Airborne AESA Through Multi Channel Receiver</i> Karthik Bodaballa (Centre for Airborne Systems DRDO, India); Bhupendra Kumar (Centre for Airborne Systems DRDO, India) [1571026131]</p>		
2	<p><i>Multi Layer Patch Antenna Design for C-Band Data Link Application</i> Rishi Mishra (CABS, DRDO, India); Manjunatha K (CABS, DRDO, India); Uma S (Drdo, India) [1571026151]</p>		
3	<p><i>High Gain Fabry-Perot Cavity Antenna Using Single Layered Partially Reflective Surface</i> Ranjit Kumar Dutta (Indian Institute of Technology Kanpur, India); Baisakhi Bandyopadhyay (Indian Institute of Technology Kanpur, India); Kumar Vaibhav Srivastava (Indian Institute of Technology Kanpur, India) [1571030136]</p>		
4	<p><i>Compact Flexible SRR-Based WBAN Antenna Using PDMS Substrate for Military Personnel Remote Health Monitoring</i> Pooja Sharma (Motilal Nehru National Institute of Technology Allahabad, India); Kshitij Singh Yadav (Motilal Nehru National Institute of Technology, India); Shweta Singh (Motilal Nehru National Institute of Technology Allahabad, India); Tilakdhari Singh (Motilal Nehru National Institute of Technology, Allahabad, India); Shivesh Tripathi (G L Bajaj Institute of Technology and Management Gr Noida, India); Vijay Shanker</p>		

Tripathi (Motilal Nehru National Institute of Technology, Allahabad, India)
[1571019546]

5 *Multiple Beamforming Planar Antenna Array With Broadside and End-Fire Radiation Patterns*
Shiva Singh (PDPM IIITDM Jabalpur, India); Abhishek Patel (PDPM IIITDM Jabalpur, India); Manoj Singh Parihar (IIITDM, India)
[1571030722]

6 *Microwave Imaging Using Balanced Antipodal Antenna for Security Applications*
Athul O Asok (Indian Institute of Technology Palakkad, India); Soumik Dey (Indian Institute of Technology Palakkad, India); Sukomal Dey (Indian Institute of Technology Palakkad, India)
[1571030375]

7 *A Multiband Dual-Mode Frequency Reconfigurable Antenna for Various Wireless Applications*
Shweta Singh (Motilal Nehru National Institute of Technology Allahabad, India); Pooja Sharma (Motilal Nehru National Institute of Technology Allahabad, India); Aditya Pal (Motilal Nehru National Institute of Technology, Allahabad, India); Vijay Shanker Tripathi (Motilal Nehru National Institute of Technology, Allahabad, India)
[1571030292]

8 *Inhomogeneous Conformal Rectangular Microstrip Antenna*
Mirza Wazed Ahmed Begg (NIT ROURKELA, India); Sudipta Maity (National Institute of Technology Rourkela, India)
[1571032077]

Comments

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P2 (*Space Pleanary-II*)

Session time Mon, Jul 22 14:00-15:00

Location Convention Centre

Comments

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PD1 (*Panel Discussion on "Large Scale Digital Engineering Initiatives for Aerospace & Defence: Opportunities, Challenges and Benefits"*)

Session time Mon, Jul 22 15:00-16:00

Location Convention Centre

Comments



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TB2 (*Tea/Coffee Break & Exhibit Visit*)

Session time Mon, Jul 22 16:00-16:30

Comments



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OS10 (*Satellite Antenna Technologies*)

Session time	Mon, Jul 22 16:30-18:30
Location	Amaryllis
Talk time per paper	15
Chaired by	

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>K/Ka-Band Dual Circularly Polarized Shared Aperture Microstrip Array Antenna</i> Suvrajit Ghosh (Indian Space Research Organisation (ISRO), India); Atrish Mukherjee (Indian Space Research Organisation (ISRO), India); Sravan Kumar Sagi (Space Applications Centre ISRO, India); Milind B Mahajan (Space Applications Centre, ISRO, India) [1571026009]</p>		
2	<p><i>Multiple Panel Array Antenna Concept for SOTM Application</i> Daksh Dhiman (Antenna Systems Group & ISRO, India); Sravan Kumar Sagi (Space Applications Centre ISRO, India); Milind B Mahajan (Space Applications Centre, ISRO, India) [1571026028]</p>		
3	<p><i>Design of AMC Backed Printed Monopole Antenna for GPS and Satellite Applications</i> Baisakhi Bandyopadhyay (Indian Institute of Technology Kanpur, India); Ranjit Kumar Dutta (Indian Institute of Technology Kanpur, India); Kumar Vaibhav Srivastava (Indian Institute of Technology Kanpur, India) [1571030022]</p>		
	<p><i>Rectangular Dielectric Resonator Antenna for Ku-Band Satellite Applications</i> Kshitij Singh Yadav (Motilal Nehru National Institute of Technology, India); Piyush Kumar Mishra (Motilal Nehru National Institute of Technology Allahabad, India); Tilakdhari Singh (Motilal Nehru National Institute</p>		

4 of Technology, Allahabad, India); Pooja Sharma (Motilal Nehru National Institute of Technology Allahabad, India); Vijay Shanker Tripathi (Motilal Nehru National Institute of Technology, Allahabad, India)
[1571025950]

5 *Design of Wide-Band, Dual Linear Ku-Band CATF Feed for Multi-Beam Satellite Characterization*
Abhinav Kumar Jha (Isro, India); Puneet K Mishra (URSC, India); Haindavi Manigilla (India); Renuka R (URSC, Bangalore, India); Pramod V. B. (UR Rao Satellite Centre, India); RV Nadagouda (Indian Space Research Organisation, India)
[1571031837]

6 *Satellite Antenna Design Using AI Based Approach*
Sanika Borgaonkar (Shri G. S. Institute of Technology and Science, India); Satish Jain (SGSITS INDORE, India)
[1571030376]

Comments



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OS11 (IR/Photonics/Electro-optics Technologies)

Session time	Mon, Jul 22 16:30-18:30
Location	Petunia
Talk time per paper	15

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>On-Board Performance of Star Trackers With Very High Absorber CNT Film Coated Baffles</i> Girish M Gouda (Indian Space Research Organization (ISRO) & Laboratory for Electro Optics Systems, LEOS-ISRO, India); Debashree Das (Laboratory for Electro Optics Systems-ISRO, India); Murulidhara K R (Laboratory for Electro-Optics Systems-ISRO, India); Venkateswaran R (Laboratory for Electro Optics Systems-ISRO, India); Kalpana Arvind (LEOS-ISRO, India); Sriram K V (HEAD, India) [1571027057]</p>		
2	<p><i>Monte-Carlo Simulation of Integrated Detector Dewar Cooler Assembly</i> Ravinder Pal (Solid State Physics Laboratory, India); Archana Singh Morye (Solid State Physics Laboratory Delhi, India) [1571028057]</p>		
3	<p><i>Integrated Electro Optic Infra Red(EO/IR) Simulation for Airborne Maritime Surveillance</i> Boppena Nagaraju (DRDO, India); R Rajesh (CABS, India) [1571029758]</p>		
4	<p><i>Simulation Analysis of Ge2Sb2Te5 Vertical Photodetector on Silicon Photonic for Various Thickness Levels</i> Manoj Tolani (Manipal Institute of Technology, Manipal & Manipal Academy of Higher Education, India); Arun Balodi (Dayananda Sagar University, Bengaluru, India); Ambar Bajpai (GITAM University, Bengaluru & IEEE Bangalore Section, India)</p>		

[1571030709]

- 5 *Non Uniformity Correction Algorithm for Imaging Infrared System*
Archana Singh Morye (Solid State Physics Laboratory Delhi, India); Ravinder Pal (Solid State Physics Laboratory, India)
[1571032073]

- 6 *Reduced Graphene Oxide Based X Ray Detector for Space Application*
Anshika Garg (Dayananda Sagar University, India); Baishali Garai (RV University, India); Radhakrishna V. (Space Astronomy Group, U R Rao Satellite Centre, ISRO, India); Koushal Vadodariya (Space Astronomy Group, U R Rao Satellite Centre, ISRO, India)
[1571030766]

Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS12 (*Assembly, Integration & Testing*)

Session time Mon, Jul 22 16:30-18:30

Location Poinsettia 1

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>Chandrayaan-3 Lander Module Assembly, Integration and Testing</i> Sai Kiran Reddy Dwarampudi (Indian Space Research Organisation, India); Priyanka Mishra (Indian Space Research Organisation, India); Rajesh Muntha (Indian Space Research Organization, India); Muniraja S M (Indian Space Research Organization, India); Binu D (Indian Space Research Organization, India); Renuka R (URSC, Bangalore, India); Pramod V. B. (UR Rao Satellite Centre, India) [1571029098]</p>		
2	<p><i>Assembly, Integration and Testing of Special Tests of Chandrayaan-3</i> Shweta Shweta (ISRO, India) [1571029137]</p>		
3	<p><i>Challenging Integration Aspects of Aditya L1 Spacecraft</i> Medasani Thejasree (URSC & ISRO, India) [1571030091]</p>		
4	<p><i>Integration of INSAT3DS Spacecraft and Challenges</i> Anju Damodaran (UR Rao Satellite Centre, India); Md. Tafsir (UR Rao Satellite Centre, India); Jagat Pati Singh (UR Rao Satellite Centre, India); Deepak M (UR Rao Satellite Centre, India); Gomathi Ramya D (UR Rao Satellite Centre, India); Rajnish Yadav (UR Rao Satellite Centre, India); Vivek Rai Srivastava (UR Rao Satellite Centre, India); Pramod V. B. (UR Rao Satellite Centre, India); RV Nadagouda (Indian Space Research Organisation, India) [1571036190]</p>		
	<p><i>Design and Development of Test Controller and Test Command Control Unit for Integration and Testing of</i></p>		

5 *a Mission System of Airborne Surveillance System*
Nidhi Mittal (CABS DRDO, India); Deepthi VD (CABS DRDO, India); Jayaprakash K P (CABS, DRDO, India);
A S Kumaran (CABS DRDO, India); Santhya P (CABS, India); K Rajalakshmi Menon (CABS, India)
[1571030781]

6 *An ERAS for Aircraft Electrical System Design Validation, System Integration and Pre-Installation Checks*
Bhavish Kumar (Defence R&D Organisation & Min of Defence, Government of India, India); Rajarajeshwari
A (CABS, India); Y Purushottam (CABS DRDO, India); SK Venkatesh (CABS DRDO, India)
[1571027385]

Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS13 (*Power/Energy/Power Electronics*)

Session time Mon, Jul 22 16:30-18:30

Location Poinsettia 2

Paper	Paper details	Was the paper presented?	Name of presenter
1	<i>Periodic Steady-State Computation for Coupled Field-Circuit Problems: A Co-Simulation Approach</i> Arpit Sanjay Patil (Sardar Patel Institute of Technology, India); Govind Haldankar (Mumbai University & S P I T, India) [1571015747]		
2	<i>Controller Design for High Gain Converters Having Non-Minimum Phase Issues</i> Preeti Sharma (BITS Pilani, India) [1571032053]		
3	<i>Study of Single-Phase Shift Power Modulation in Isolated Bi-Directional Dual Active Bridge DC-DC Converter</i> Krishna Yadav (UGC, India); Nivedika Kher (Shri Mata Vaishno Devi University Katra, India); ViKram Kumar (SMVD University, India); Kamaldeep Boora (Shri Mata Vaishno Devi University, Katra, India) [1571030782]		
4	<i>Determination of Shield Height of Power Amplifiers Using 3D EM Simulation</i> Vidyalakshmi Mandakolathur Ravi (Tejas Networks, India) [1571032118]		
5	<i>Design and Realization of Programmable Electronic Load for Aerospace Vehicle Testing</i> Kamlesh Kumar (ASL HYDERABAD, DRDO, India) [1571026105]		

Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS14 (*Special Session on AI/ML Technologies for SPACE-II*)

Session time	Mon, Jul 22 16:30-18:30
Location	Heliconia 1
Talk time per paper	15
Chaired by	Shyam Lal (National Institute of Technology Karnataka, Surathkal, India)

Paper	Paper details	Was the paper presented?	Name of presenter
1	<i>Dynamic Approach for Object Detection Using Deep Reinforcement Learning</i> Sheetal Borkar (DIAT, India); Upasna Singh (DIAT, India); Soumya S (DIAT, India) [1571024582]		
2	<i>Denoising Lunar Hyperspectral Images Using CNN With Skip Connections</i> Urvashi Mesariya (Nirma University, India); Anuj Shah (Nirma University, India); Anuja Nair (Nirma University, Ahmedabad, Gujarat, India); Tarjani Vyas (Nirma University, India); Shivani Desai (Institute of Technology Nirma University, India); Sudeep Tanwar (Nirma University & Institute of Technology, India) [1571026441]		
3	<i>Machine Learning-Based Models for State Estimation of Ads-B Gps Data</i> Leela Vishnu Vardhan (Hindustan Institute of Technology and Science, India) [1571026855]		
4	<i>Single Band NIR-To-RGB Image Colorization Using Attention Guided Conditional GAN</i> Moordhan B Songade (Malaviya National Institute of Technology, Jaipur, India); Sunita Arya (Space Applications Centre, ISRO, India); S Manthira Moorthi (Space Applications Centre ISRO, India) [1571030460]		
	<i>Retinal Microvascular Complications Detection Using Deep Learning Model</i>		

5 Kavitha M (Vel Tech University, India); Srinivasan R (Vel Tech, India); R Kavitha (Vel Tech Technical University, India); Chilukuri Pavan Chowdary (Veltech University, India); Nithineswara Reddy (Vel Tech Rangarajan Sagunthala R&D Institute of Science and Technology, India); Udaya Bhanu Praksah Reddy (Vel Tech Rangarajan Dr Sagunthala R&D Institute of Science and Technology, India)
[1571030593]

6 *A Novel Deep Learning Approach for Data Analysis on High Resolution Chandrayaan-2 Data*
Jai G Singla (Space Applications Centre, Ahmedabad, India); Rohit Sharma (Manipal University Jaipur, India); Aishwary Shree (Manipal University Jaipur, India); Amitabh Amitabh (Space Applications Centre, India); Nitant Dube (ISRO, India)
[1571025492]

7 *Deep Learning-Based Radio Frequency Interference Classification and Mitigation in Radar Images: A CNN and DnCNN Approach*
Shweta Shukla (ISTRAC, Bangalore, India); Shivangi Mishra (ISTRAC, ISRO, India); Vk Anandan (ISRO, India); Deepak Mishra (IIST, India)
[1571025863]

8 *Attention-Based Semantic Segmentation of Satellites for In-Orbit Space Situational Awareness*
Vivek Parmar (Indian Institute of Technology Delhi & CYRAN AI Solutions, India); Shubham Negi (CYRAN AI Solutions, India); Manan Suri (Indian Institute of Technology - Delhi, India)
[1571026149]

Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS15 (*Women-Led Technology Developments*)

Session time Mon, Jul 22 16:30-18:30

Location Heliconia 2

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>An Innovative Long Distance Communication Technique With Suppressed EDFA Transients Using Differential Signals</i></p> <p>Meena Dasan (LRDE, DRDO, India); Vidyamol s (LRDE, India); Sarath K T (LRDE Bangalore, India); Arjun Anil Kumar (LRDE, India); Preenu Acha Prasad (LRDE, India) [1571030804]</p>		
2	<p><i>A Dual Linear Polarized, Wide Bandwidth, C-Band CATF Feed for Radiated Mode Characterization of Spacecraft Payloads</i></p> <p>Haindavi Manigilla (India); Puneet K Mishra (URSC, India); Renuka R (URSC, Bangalore, India); Pramod V. B. (UR Rao Satellite Centre, India); RV Nadagouda (Indian Space Research Organisation, India) [1571028600]</p>		
3	<p><i>A Parabolic Reflector Antenna for C Band Satellite Telemetry Reception During Launch Phase</i></p> <p>Vidya K A (ISRO, India); Umang Parikh (ISRO, Bangalore, India); Vinay Kumar Singh (ISRO, India); Dharvendra Pratap Yadav (ISRO, India); Balaji Rao (ISRO, India); Shwetha N (ISRO, India) [1571029772]</p>		
4	<p><i>Design and Development of Liquid Cooling System for Airborne Radar</i></p> <p>Annapurna Sogunuru (CABS, India); Vikram P (CABS, India); Gokul Depuk TP (CABS, India); Priyank Prasad (CABS, India) [1571030526]</p>		
	<p><i>Realization of HMC Based Indigenous High Current Solid State Switch Controller for Aerospace</i></p>		

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| 5 | <i>Applications</i>
Subhashini K (ISRO, India); Anju Singh (URSC, India); Ajay Andhiwal (UR Rao Satellite Centre, ISRO, India);
PENCHALA BABU (URSC, India); Jothy Soman (ISRO, India); VANITHA M (URSC, India)
[1571035933] | | |
| 6 | <i>Transit Photometry for Estimating the Velocity of Exoplanets and Specific Defence Applications</i>
Harshita Bose (Delhi Technological University, India)
[1571030512] | | |
| 7 | <i>Automated Marine Debris Detection From Sentinel-2 Satellite Imagery</i>
R Priyadarshini (National Institute of Technology, India); Varun Arya (NITK Surathkal, India); Sowmya
Kamath S. (National Institute of Technology Karnataka, India)
[1571032113] | | |
| 8 | <i>Energy Efficient and Latency-Constrained Task Offloading in Cooperative Cube Satellite Network</i>
Shilpi Kumari (Indian Institute of Technology (BHU) Varanasi, India); Shubham Jain (Indian Institute of
Technology (BHU) Varanasi, India); Shikhar Srivastav (Indian Institute of Technology (BHU) Varanasi,
India); Ajay Pratap (Indian Institute of Technology (BHU) Varanasi, India)
[1571032061] | | |

Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS16 (5G/6G/mm-wave Technologies)

Session time	Mon, Jul 22 16:30-18:30
Location	Tulip
Talk time per paper	15
Chaired by	Anindya Saha (Tejas Networks, India)

Paper	Paper details	Was the paper presented?	Name of presenter
1	<i>Compact Planar Power Divider for 5G Applications</i> Murugesh Surya S (HCLTECH, India); Debojyoti Choudhury (HCLTECH, India); Ranadhir Chatterjee (HCLTECH, India) [1571025729]		
2	<i>Low Profile Multi-Band Antenna Design for 5G Body Centric Applications</i> Saswati Ghosh (HCL Technologies Ltd, India); Debojyoti Choudhury (HCLTECH, India); Chayan Roy (Indian Institute of Technology Kharagpur, India) [1571030653]		
3	<i>Design and Analysis of Modified WR229 With a Tapered Section for 5G Signal Rejection</i> Majji Hima Prasanna Kumar Raja (MCF ISRO, India); Amit Kumar Vishwakarma (MCF ISRO, India); Rajeev Mulugu (MCF ISRO, India); Kirti Agarwal (Indian Space Research Organisation, India); Rajashekar J (MCF ISRO, India); Rajnish Sharma (MCF ISRO, India) [1571026204]		
4	<i>SIGMAML: SNR-Guided 5G Mobility Management Using Machine Learning Algorithms</i> Adnan Farooq Bhat (National Institute of Technology, Srinagar, India); Shahid Mehraj Shah (National Institute of Technology, Srinagar, J&K, India) [1571028870]		

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| 5 | <p><i>Minimizing Costs for Content Service Providers in 6G Space-Air-Ground Integrated Networks</i>
 Saurabh Kumar Mishra (Indian Institute of Technology Banaras Hindu University, India); Chirag Goyal (Indian Institute of Technology Banaras Hindu University, India); Chetan Agrawal (Indian Institute of Technology Banaras Hindu University, India); Ajay Pratap (Indian Institute of Technology (BHU) Varanasi, India)
 [1571032103]</p> |
| 6 | <p><i>A Compact MIMO Dielectric Resonator Antenna for n261 mm-Wave Satellite Communication</i>
 Piyush Patel (Motilal Nehru National Institute of Technology, India); Aditya Pal (Motilal Nehru National Institute of Technology, Allahabad, India); Kshitij Singh Yadav (Motilal Nehru National Institute of Technology, India); Aishwarya Singh (Motilal Nehru National Institute of Technology, India); Vijay Shanker Tripathi (Motilal Nehru National Institute of Technology, Allahabad, India)
 [1571019351]</p> |
| 7 | <p><i>Design and Development of Vacuum-Sealed Waveguide Window for mm-Wave and Sub mm-Wave Applications</i>
 Latheef Shaik (Space Applications Centre, India); Ashish Kumar Shukla (Space Applications Centre, India); Satendra Kumar (Space Applications Centre, India); Anamiya Bhattacharya (Indian Space Research Organization, India); Mahendra P Bhadoria (Space Applications Centre, ISRO, India); Harshita Tolani (Indian Space Research Organization, India); Prantik Chakraborty (SAC ISRO, India)
 [1571025698]</p> |
| 8 | <p><i>Fault Resilient Payload Controller With AGOC Algorithm for mm-Wave Humidity Sounder Payload</i>
 Madhav Das (Space Applications Centre, ISRO, Ahmedabad, India); Manish Kumar (Space Applications Centre, India); Ganesh Mulay (Indian Space Research Organisation, India); Vinaykumar S (Space Applications Centre, India); Himanshu Patel (Indian Space Research Organisation (ISRO), India); Saravana B Kumar (Indian Space Research Organisation, India)
 [1571030448]</p> |

Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS17 (*Metasurfaces and Associated Technologies*)

Session time	Mon, Jul 22 16:30-18:30
Location	Hibiscus 1
Talk time per paper	15
Chaired by	Kumar Vaibhav Srivastava (Indian Institute of Technology Kanpur, India)

Paper	Paper details	Was the paper presented?	Name of presenter
1	<i>Metasurface Loaded Conformal Load-Bearing Antenna Structure for Defence Aircraft</i> Anubhav Kumar (Indian Institute of Technology Kanpur, India); Raghvendra Kumar Chaudhary (IIT Kanpur, India) [1571029830]		
2	<i>Monopole-Fed Modulated Metasurface Based Antenna for Beam-Steering Applications</i> Dheeraj G (R V College of Engineering, India); Sateesh S Badadal (RV College of Engineering, India); A Mahesh (RV College of Engineering, India); Raju Malleboina (Indian Institute of Science, India); Debdeep Sarkar (Indian Institute of Science, India) [1571030011]		
3	<i>A Dual-Band Composite Right/Left-Handed SIW Metamaterial Unit Cell for mmWave Communications</i> Priya Rahul (KIIT Deemed to Be University, India); Sudhakar Sahu (KIIT University, Bhubaneswar, India); Wriddhi Bhowmik (KIIT, India) [1571019608]		
4	<i>Efficient Far-Field Microwave WPT Using GRIN Lens Metamaterial at 2.45 GHz</i> Shashank Kulkarni (IIT Guwahati, India); Sisir Kumar Nayak (Indian Institute of Technology Guwahati, India) [1571026487]		

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| 5 | <i>Design of a Polarization-Insensitive Wideband Metamaterial Absorber in Mid-Band of Sub-6 GHz for 5G</i>
Punyatoya Routray (IIT Bhubaneswar, India); Debalina Ghosh (IIT Bhubaneswar, India)
[1571032048] |
| 6 | <i>Wideband Microwave Absorption in C and X Bands With Metallic Resonator and Resistive Ink</i>
Satya Prasad Mishra (NIT ROURKELA, India); Sudipta Maity (National Institute of Technology Rourkela, India)
[1571026295] |
| 7 | <i>Graphene Metasurface Absorber for Electromagnetic Interference Shielding in Future Space Applications</i>
Naveen Kumar Maurya (Vishnu Institute of Technology, Bhimavaram, India); G. Challa Ram (Shri Vishnu Engineering College for Women, India); Priyanka Singh (ISTRAC, India)
[1571028966] |
| 8 | <i>All Dielectric LWIR Metasurface Reflectors for Space Technologies</i>
Jayesh Sadasivan (Mahindra University, India); Sagar Chowdhury (Indian Institute of Technology Madras, India); Rituraj Rituraj (IIT Kanpur, India); Jayasri D (Mahindra University, India); Srinu Krishnamurthy (Indian Institute of Technology Madras, India); Sivarama Krishnan (IIT Madras Chennai, India)
[1571030807] |

Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS18 (*Special Session on Software Defined Radio*)

Session time	Mon, Jul 22 16:30-18:30
Location	Hibiscus 2
Talk time per paper	15

Paper	Paper details	Was the paper presented?	Name of presenter
1	<i>Video Streaming Over Software Defined Radio Using PolarFire FPGA and AD9371</i> Prakash Reddy Battu (Microchip, India); Sunny Bezawada (Microchip, India); Kranthikumar Ghanapuram (Microchip, India); Varaprasad Palivela (Microchip, India); Nagasrujit Adimulam (Microchip, India) [1571025684]		
2	<i>Design Challenges in a SDR Platform for Space Applications</i> Girish Chandra Tripathi (Tejas Networks Limited, India); Ratnesh Kumar Gaur (Tejas Networks & IEEE ORG, India) [1571031845]		
3	<i>Ambiguity Analysis of Multi-User OTFS-LFM Waveform for ISAC</i> Anup George Koshy (VIT University, Vellore, India); Nanditha Unnikrishnan (Center for Airborne Systems, Bangalore & Defence Research Development Organization, India); Ramkumar Raghu (Indian Institute of Science, India); R Rajesh (Center of Airborne Systems, DRDO, India) [1571029133]		
4	<i>FPGA Based OFDM MIMO Transmit Beamformer for Multi-Functional Software Defined Radars</i> Ahalya S Kumar (GEC Thrissur, India); Nanditha Unnikrishnan (Center for Airborne Systems, Bangalore & Defence Research Development Organization, India); Ramkumar Raghu (Indian Institute of Science, India); R Rajesh (Center of Airborne Systems, DRDO, India) [1571029115]		

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| 5 | <i>Wideband Predistorter for Frequency Hopped Signal</i>
Jaya Mishra (Defence Electronics Applications Laboratory & Indian Institute of Technology Roorkee, India); Meenakshi Rawat (IIT Roorkee, India)
[1571026259] | | |
| 6 | <i>Design of Low Cost FFT Based Spectrum Analyzer for Monitoring Stations</i>
Amit Kumar Vishwakarma (MCF ISRO, India); Majji Hima Prasanna Kumar Raja (MCF ISRO, India); Kirti Agarwal (Indian Space Research Organisation, India); Rajnish Sharma (MCF ISRO, India)
[1571026186] | | |
| 7 | <i>Transforming Satellite Ground Station Architecture Using Software-Defined-Radio</i>
Jitendra Kumar Kapse (MCF ISRO, India); Gireesh M. (Communication Instrumentation and Baseband, MCF, India); Mudumba Ramesh (CIB, MCF, India)
[1571026435] | | |
| 8 | <i>GNU Radio Based Satellite Communication Tool</i>
Deekshitha Kg (PES University, India); Chaitanya Patange (PES University, India); Harshitha M (PES University, India); Chaitra Nijalingappa (PES University, India); Ratnakar M (TCS Ltd, India); Jhanavi R (TCS Ltd, India); Pallavi Ls (TCS Ltd, India); Amagond Biradar (Rnl & TCS, India); Ullas Pradhan (TCS Ltd, India); Sai Prasad (TCS Ltd, India); Nagendra Rao G (PES University, India); Manikandan J (PES University (PESU), India)
[1571025620] | | |

Comments

IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)



PD2 (*Panel Discussion on Opportunities for Startups in SPACE*)

Session time Mon, Jul 22 16:30-17:30

Location Convention Centre

Comments

IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)



Plenary Talks (*Sponsors Presentation*)

Session time Mon, Jul 22 17:30-18:00

Location Convention Centre

Comments

IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)



P3 (*Plenary Talks*)

Session time Mon, Jul 22 18:00-19:00

Location Convention Centre

Comments

IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)



AP-S 75 Years Celebrations

Session time Mon, Jul 22 19:00-19:30

Location Convention Centre

Comments

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Cultural Program

Session time Mon, Jul 22 19:30-20:00

Location Convention Centre

Comments

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Banquet Dinner

Session time Mon, Jul 22 20:00-21:30

Comments

IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)



P4 (*Aerospace & Defence Plenary*)

Session time Tue, Jul 23 8:30-10:30

Location Convention Centre

Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

TB3 (*Tea/Coffee Break & Exhibit Visit*)

Session time Tue, Jul 23 10:30-11:00

Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS19 (*Special Session on Quantum Technologies*)

Session time Tue, Jul 23 11:00-13:00

Location Amaryllis

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>A Brief Review and Challenges in Quantum Computing</i> Rajendraprasad Reddy Yerabalu (Indian Space Research Organisation, India); Yogesh Kr (URSC Bangalore, India) [1571031983]</p>		
2	<p><i>TRNG Integration in FPGA-Based QKD Control Electronics</i> Mohd Razin Ashfaque (Centre for Development of Advanced Computing, India); Vaibhav Pratap Singh (Centre for Development of Advanced Computing, India); Mahesh Kondeti (Centre for Development of Advanced Computing, India); Forum Shingala (SETS Chennai, India); Haribabu Pasupuleti (Centre for Development of Advanced Computing, India); Sudarsan S D (Centre for Development of Advanced Computing (CDAC), India); Anil Prabhakar (IIT Madras, India) [1571030820]</p>		
3	<p><i>Low Noise GaN/AlxGa1-xN on SiC Vertical p-n Diodes for Improved Optoelectronic Performance</i> Debraj Modak (Abacus Institute of Engineering and Management & JIS GROUP, India); Shajith Nair (Adamas University, India); Abhijit Kundu (Chaibasa Engineering College, India); Indranath Sarkar (JIS College of Engineering, India); Karabi Ganguly (JIS College of Engineering, India); Moumita Mukherjee (Professor, India) [1571030828]</p>		
4	<p><i>Atom Interferometry in Space: Improving Quantum Sensors for Space Environments</i> Manju Perumbil (Central University of Kerala, India); Stuart S Szigetti (Australian National University, Australia); Simon A Haine (Australian National University, India) [1571027563]</p>		

5 *Designing 256-QAM for High Data Rate Optical Wireless Communication*
Sree Harsha Prada Peesapaty (MIT World Peace University, India); Chinchu Joseph (RF Photonics Lab, India); Eguri Samson Vineeth Kumar (RF Photonics Lab, India); Anjali R Askhedkar (MIT World Peace University & MITWPU, India); Arockia Bazil Raj (Defence Institute of Advanced Technology Pune, India) [1571026077]

6 *Implementation of PPM Waveform for Underwater Laser Communication*
Pankaj Bhatoe (Defence Electronics Application Laboratory (DEAL) DRDO, India); Rajendra Kumar Gupta (Defence Electronics Application Laboratory, India); Abhishek Jain (Defence Electronics Application Laboratory, India); Sushil Kumar Singh (Defence Electronics Application Laboratory, India); Ghanendra Singh (Defence Electronics Application Laboratory, India); Rajendra Singh (SCIENTIST, India) [1571026256]

Comments

IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)



OS20 (*Image/Data/Signal Processing*)

Session time	Tue, Jul 23 11:00-13:00
Location	Petunia
Talk time per paper	15

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>Chandrayaan-2 Onboard Results for Lander Horizontal Velocity Camera and Improvement for Chandrayaan-3</i></p> <p>Tanisha Bhatia (Scientist, India); Amit Maji (Scientist, India); Jayanta Laha (Laboratory for Electro Optics Systems, ISRO, India); Priyabrata Senapati (Scientist, India); Vijaya Y (Scientist, India) [1571025372]</p>		
2	<p><i>Enhancing Resilience: Redundancy Reduction for Object Detection in Adversarial Conditions</i></p> <p>Shubham Agarwal (Ben-Gurion University of the Negev, Israel); Raz Birman (Ben Gurion University of the Negev, Israel); Ofer Hadar (Ben Gurion University of the Negev, Israel) [1571025671]</p>		
3	<p><i>Bearing Only Track to Track Association for Airborne Surveillance System</i></p> <p>B R Kapuriya (CABS, India); A Muthukumar (CABS, India); Renu Kumari Chauhan (Centre for Airborne Systems, India); R Rajesh (CABS, India) [1571029079]</p>		
4	<p><i>PLANET: Multi-Class Patch Layer Adaptive Network for Satellite Image Segmentation</i></p> <p>MD Samiul Islam (University of Alberta, Canada); Irene Cheng (University of Alberta, Canada) [1571026072]</p>		
	<p><i>Vegetation Health Assessment Through a Novel Index Approximation Filter and K-Means Clustering</i></p>		

5 Fei Yang (University of Alberta, Canada); Irene Cheng (University of Alberta, Canada)
[1571026108]

6 *Distributed Environment Monitoring Using Minimum Volume Ellipsoid*
Prabeen Kumar Sahu (NIT Rourkela, India); Upendra Kumar Sahoo (NIT Rourkela, India); Swarna Panda
(National Institute of Technology, Rourkela, India); Santos Ku Das (National Institute of Technology
Rourkela, India)
[1571029697]

Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS21 (*RF Switches/RFID*)

Session time Tue, Jul 23 11:00-13:00

Location Poinsettia 1

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>High-Power SPDT Switch With an Integrated Driver for P-Band Airborne RADAR Application</i> Srishti Srivastava (Indian Space Research Organization, India); Shruti Sinha (SAC, ISRO Ahmedabad, India); Jolly Dhar (Space Applications Centre, ISRO, India); Cvn Rao (Space Applications Centre (ISRO), India) [1571030538]</p>		
2	<p><i>A Systematic Approach to Mitigate Parasitics for Wide-Band High Isolation CMOS SPDT Switch</i> Jyotsna Ladkani (ISRO, India); Bhumika Deo (ISRO, India); Hari Shanker Gupta (Space Applications Centre ISRO, India) [1571029994]</p>		
3	<p><i>Analytical and Experimental Study of Fabrication Process Induced Stress on Pull-In Behaviour of Fixed-Fixed Beam RF-MEMS Switches</i> Ashish Chauhan (SCL, India); Ayan Karmakar (Semi-Conductor Laboratory(SCL), Chandigarh, India); Kamaljeet Singh (Semi-Conductor Laboratory, India) [1571029643]</p>		
4	<p><i>Evaluation of Power Transfer Efficiency and Received Power for Near-Field UHF RFID System</i> Dontula Ravanth (Defence Institute of Advanced Technology, India); Sanket Kalamkar (Defence Institute of Advanced Technology (DIAT), India); Rajesh K Singh (Defence Institute of Advanced Technology, India); Ashish Jindal (DRDO & IIT Delhi, India) [1571030550]</p>		

- 5 *Polarization Switchable Compact Dual-Band Slot Antenna for Low-Cost RFID Reader*
Sanket Kalamkar (Defence Institute of Advanced Technology (DIAT), India); Rajesh K Singh (Defence Institute of Advanced Technology, India); KP Ray (DIAT, Pune, India)
[1571030760]

- 6 *Design and Analysis of 4x4 EBG Backed Miniaturized Disc-Shaped Wearable RFID Tag Antenna for Biomedical Communications*
Shubhanshi Jain (Indian Institute of Space Science and Technology, Thiruvananthapuram & Banasthali Vidyapith, India); Gautham Purohit (Academia & Indian Institute of Space Science and Technology, India); Swarnadipto Ghosh (Indian Institute of Space Science and Technology, Thiruvananthapuram, India); Chinmoy Saha (Indian Institute of Space Science and Technology, India & Royal Military College of Canada, Canada)
[1571031430]

Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS22 (*Checkout Systems*)

Session time	Tue, Jul 23 11:00-13:00
Location	Poinsettia 2
Talk time per paper	15

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>Automation and Optimization of Spacecraft RF Checkout Through Software Solution</i></p> <p>Narayana Rao G S (UR Rao Satellite Centre, Indian Space Research Organisation, India); Prakriti Sahay (UR Rao Satellite Center, Indian Space Research Organisation, India, India); Abhishek Kumar (UR Rao Satellite Center, Indian Space Research Organisation, India, India); Raja Sharma (UR Rao Satellite Center, Indian Space Research Organisation, India); Subbaraya Sastry C V R (UR Rao Satellite Center, Indian Space Research Organisation, India, India) [1571025890]</p>		
2	<p><i>Development of FPGA Based Automated System for Testing Launch Vehicle Checkout Umbilical Interfaces</i></p> <p>Hareesh Ravindran (SDSC-SHAR, ISRO, India); R Vijay Kumar (SDSC-SHAR, ISRO, India); Kandula Koteswara Rao (SDSC-SHAR, ISRO, India); Parvataneni Sunil (SDSC-SHAR, ISRO, India) [1571026498]</p>		
3	<p><i>Grounding Architecture of Checkout Systems for Testing Triple Independent Bus Systems</i></p> <p>Tushar Golani (ISRO, India); Meshram Vijay Akshay (ISRO, India); Gladys Priyadarshini (ISRO, India); Atul Kant Dixit (ISRO, India); Sachin Gupta (ISRO, India); Krishnan V (ISRO, India) [1571032043]</p>		
	<p><i>Onboard Power Distribution and Measurement for Launch Vehicle Avionics System With Reduced Umbilical Interface</i></p>		

- | | | | |
|---|---|--|--|
| 4 | Sheikh Abdul Vaheed (ISRO, India); Vaddavalli Dilipkumar (VSSC, ISRO, India); A Muralikrishna (ISRO, India); Binny Mathew (ISRO, India)
[1571028970] | | |
| 5 | <i>Hybrid Based Test Methodology for Characterization of High Power Payloads</i>
Shiv Shankar Pareek (ISRO & Space Applications Centre, India); Vinay Yadav (ISRO, India); Rakesh Vyas (Space Applications Centre, India)
[1571030284] | | |
| 6 | <i>DESIGN and SIMULATION of 32 x 64 RF SWITCH MATRIX Up to 40 GHz</i>
chittaranjan swain (CABS DRDO, India); Thara Mathew (CABS, India); Jayaprakash K P (CABS, DRDO, India); A S Kumaran (CABS DRDO, India); Santhya P (CABS, India); K Rajalakshmi Menon (CABS, India)
[1571030335] | | |

Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS23 (*Special Session on AI/ML Technologies for SPACE-III*)

Session time	Tue, Jul 23 11:00-13:00
Location	Heliconia 1
Chaired by	Suman Agrawal (Defence Research and Development Office, India)

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>Design and Implementation of CNN-Based Custom Net Architecture With Improved Inference Time for Realtime Remote Sensing Application</i></p> <p>Gaurav Upadhyay (Indian Institute of Technology Delhi & URSC - U R Rao Satellite Centre Bengaluru, India); Srijan Ghosal (URSC, India); Subrat Kar (Indian Institute of Technology, Delhi, India); Khayali Jain (URSC, India); Shantala S H (URSC, India); Thakar Lalitkrushna J (URSC, India); Srividhya S (ISRO, India); Sunil Alias Balwantrao (URSC, India) [1571031991]</p>		
2	<p><i>Multi-Stage UAV-Based System for Scalable and Accurate Crop Health Monitoring</i></p> <p>Kaustubh Surendra Gode (Sardar Patel Institute of Technology, India); Kaustubh Suresh Gharat (Sardar Patel Institute of Technology, India); Harshita Umesh Jogi (Sardar Patel Institute of Technology, India); Advait Ravi Sapkal (Sardar Patel Institute of Technology, India); Ronak S Thakar (Sardar Patel Institute of Technology, India); Shubham Vishwakarma (Sardar Patel Institute of Technology, India); Kiran Talele (Sardar Patel Institute of Technology, India); Sujata Kulkarni (SPIT, India) [1571026076]</p>		
3	<p><i>A Novel Feature Selection Method for Solar Flare Forecasting</i></p> <p>Ashwini Nagaraj Shenoy (National Institute of Technology Karnataka, India); Deepu Vijayasenan (Associate Professor, India); Raghavendra S Bobbi (National Institute of Technology Karnataka, India); Sreejith Padinhatteeri (Manipal University, India); Adithya H N (Manipal University, India) [1571030479]</p>		

- 4 *Investigation of Clustering Methods for SDSS Galaxy Images Through Feature Extraction With VGG-16*
Snigdha Sen (Manipal Institute of Technology Bengaluru, Manipal Academy of Higher Education, Manipal, India); Pavan Chakraborty (Indian Institute of Information Technology, Allahabad, India)
[1571030744]
- 5 *Remote Sensing Image Super-Resolution Using Deep Learning*
P Rajeshwari (India); Pamujula Lakshmi Priya (India); M Pooja (India); Ganta Abhishek (India)
[1571031268]
- 6 *ML Based Model for Forecasting Ionospheric Scintillations Using GAGAN Data*
Lakshmana Kuruva (Chaitanya Bharathi Institute of Technology & Jawaharlal Nehru Technological University Anantapur, India); Maheswara Rao Avula (JNTUA Anantapur, India); A. D. Sarma (Chaitanya Bharathi Institute of Technology & Research and Training Unit for Navigational Electronics, India)
[1571031860]
- 7 *Multi Feature Descriptor Based Ship Wake Detection Using AdaBoost-Weighted Extreme Learning Machine*
Annalakshmi Ganesan (Vel Tech Rangarajan Sagunthala R&D Institute of Science and Technology, India)
[1571031919]
- 8 *ML Based Model for Detection of Ionospheric Scintillations Using PolaRx5S Data*
Lakshmana Kuruva (Chaitanya Bharathi Institute of Technology & Jawaharlal Nehru Technological University Anantapur, India); Maheswara Rao Avula (JNTUA Anantapur, India); A. D. Sarma (Chaitanya Bharathi Institute of Technology & Research and Training Unit for Navigational Electronics, India)
[1571032008]

Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS24 (*Mechanism & Robotics*)

Session time	Tue, Jul 23 11:00-13:00
Location	Heliconia 2
Talk time per paper	15
Chaired by	

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>Design and Development of Deployment Mechanism for 3.6m Umbrella Type Space Deployable Antenna Reflector</i></p> <p>Pradeep Ananthanarayanan (Space Applications Center & Indian Space Research Organization, India); Akshay Duttaprasad Khamkar (Space Applications Centre, ISRO, India); Hemant Arora (Space Applications Centre, ISRO, India); Arup Kumar Hait (Space Applications Centre, ISRO, India) [1571025992]</p>		
2	<p><i>Design & Development of Periscope Coarse Pointing Gimbal Mechanism</i></p> <p>Bhavika Sharma (VIT Bhopal University, India); Ankit Sharma (Space Application Center (ISRO), India); Hemant Arora (Space Applications Centre, ISRO, India); Ankush D Tharkar (VIT Bhopal University, India) [1571026520]</p>		
3	<p><i>On the Control Design of Half Humanoid for Space Applications</i></p> <p>Sangeetha G. R. (Indian Space Research Organisation & ISRO Inertial Systems Unit, India); Harikumar Ganesan (Indian Institute of Technology Madras, India); Durairaj R (Scientist, India) [1571022543]</p>		
	<p><i>Design of a Series-Elastic Actuator for a Humanoid Robot for Space Applications</i></p> <p>Shubhankar Riswadkar (Rwth Aachen University, Germany); S Barat (Indian Institute of Technology,</p>		

4 Gandhinagar, India); Harish Palanthandalam Madapusi (IIT Gandhinagar, India)
[1571031832]

5 *Design and Development of Underactuated Soft Robotic Gripper for Space Applications*
Saloni Malviya (VIT Bhopal, India); Ankit Sharma (Space Application Center (ISRO), India); Hemant Arora
(Space Applications Centre, ISRO, India); Prashant GK (VIT Bhopal, India)
[1571026482]

6 *Satellite-Borne Space Waste Management System Using 3D Printing and Robotics*
Geethika Ranjith (Mar Athanasius College of Engineering, India); Nandana Jayachandran (Mar Athanasius
College of Engineering, India); Aleena Mary Anil (Mar Athanasius College of Engineering, India)
[1571031552]

7 *Origami for Deployment of Rigid Panel Array During Space Applications*
V Sri Pavan RaviChand (IISc Bangalore, India); Shishir Kolathaya (IISc Bangalore, India); K Balaji (URSC
Bangalore, India)
[1571029616]

Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS25 (*Microwave Devices*)

Session time Tue, Jul 23 11:00-13:00

Location Tulip

Chaired by

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>Design of a Very Low Noise Figure Wideband LNA With Differential Output for RF Receiver Applications</i> Rohit Kumar (Indian Institute of Technology Dharwad, India); Heena Mulla (Indian Institute of Technology Dharwad, India); Nagaveni S (IIT Dharwad, India) [1571022833]</p>		
2	<p><i>Design and Realization of Cryogenic Low Noise Amplifier for S-Band</i> Akshay Siva G S (Engineer Contract, India); Vismitha Pramod (Engineer Contract, India); Shahul Hameed V (Scientist, India); Sunaina S (Engineer Contract, India) [1571030513]</p>		
3	<p><i>Advanced Design Strategies for Ultrawideband Power Amplifiers Utilizing Multi-Branch Matching Networks</i> Hemant Kumari (National Institute of Technology Meghalaya, India); Gaurav Bhargava (National Institute of Technology Meghalaya, India); Shubhankar Majumdar (National Institute of Technology Meghalaya, India) [1571031502]</p>		
4	<p><i>High Efficiency 70W C-Band GaN MMIC PA for Space-Borne RADAR Applications</i> Samriti Kumar Garg (Scientist/Engineer, Space Applications Centre, Indian Space Research Organization, India); Tuhin Paul (Space Applications Centre (ISRO), India); Mukesh Patel (SAC, ISRO, India); Cvn Rao (Space Applications Centre (ISRO), India) [1571025575]</p>		

- 5 *Design of an 8-Way 20kW Co-Axial Radial Power Combiner for High Power S-Band Applications*
Manoj Kumar (Indian Institute of Technology Roorkee, India); Gowrish Basavarajappa (Indian Institute of Technology Roorkee, India); Kaushik Manjanbail (Rapid Parts Solutions Pvt. Ltd., India); A K Singh (Individual Entrepreneur, India)
[1571025896]
- 6 *A C-Ku Band Dual 16 Channel T/R Module Plank for EW Systems*
ARP Mallika (Gov & Defence Electronics Research Laboratory, India); Latha Thokala (DRDO Hyderabad, India); D. Srinivas Rao (Scientist D, India); Sravani Matham (DRDO, India); C. Vasant Kumar (DRDO, India); G. Syamala Rao (DRDO, India); Y. Hemalatha (DRDO, India)
[1571025942]
- 7 *Post-Fabrication Tuning of Waveguide Using Time Domain Reflectometry*
Nishant Shukla (SAC, ISRO & IIT Kanpur, India); Akhilesh Mohan (Indian Institute of Technology Roorkee, India); Vikas Gupta (SAC-ISRO, India); Praveen Ambati (SAC-ISRO, India); Jayesh Thakkar (SAC, ISRO, India)
[1571025955]
- 8 *Design of Higher Order GaAs MMIC Based Ku-Band Quintupler*
Satish Nandanwar (SAC, ISRO, India); Rati Singh (SAC, ISRO, India); Jayesh Thakkar (SAC, ISRO, India)
[1571026091]

Comments

IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)



OS26 (*RIS/FSS based Technologies*)

Session time	Tue, Jul 23 11:00-13:00
Location	Hibiscus 1
Talk time per paper	15

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>Multi-Beam Passive RIS for Simultaneous Multi-Target Connectivity Applications</i> Sylvie Rana (Indian Institute of Technology Kanpur, India); Sai Sreenija Yallanki (Indian Institute of Technology Kanpur, India); Sumit Kumar (Indian Institute of Technology Kanpur, India); A. r. Harish (Indian Institute of Technology Kanpur, India) [1571030823]</p>		
2	<p><i>Direction Finding Using Null Steering Technique</i> Sumit Kumar (Indian Institute of Technology Kanpur, India); Rishi Mishra (Indian Institute of Technology Kanpur, India); Sai Sreenija Yallanki (Indian Institute of Technology Kanpur, India); Sylvie Rana (Indian Institute of Technology Kanpur, India); A. r. Harish (Indian Institute of Technology Kanpur, India) [1571030815]</p>		
3	<p><i>Reconfigurable Intelligent Surfaces Aided Localization Using Compressive Sensing</i> Priyanka Khedar (CABS, DRDO, India); Sony Soman Oommen (CABS, India); K Rajalakshmi Menon (CABS, India) [1571030483]</p>		
4	<p><i>RIS-Aided Electronic Countermeasures</i> Ilter Erol Gurol (Koc University & ASELSAN AS & ASELSAN AS, Turkey); Ertugrul Basar (Koc University, Turkey) [1571031391]</p>		

- 5 *A Compact Transparent FSS for Tri-Band Applications With Polarization Insensitive and RCS Reduction*
Yogesh Solunke (VNIT NAGPUR, India); Deven Patanvariya (NIT Goa, India); Ashwin Kothari (VNIT NAGpur, India)
[1571026457]
-
- 6 *Compact Single Layer Enhanced Capacitance Loaded Modified Jerusalem Cross FSS for Dual-Band Orthogonal Linear to Circular Conversion*
Soumik Dey (Indian Institute of Technology Palakkad, India); Amith P Joy (Indian Institute of Technology Palakkad, India); Athul O Asok (Indian Institute of Technology Palakkad, India); Sukomal Dey (Indian Institute of Technology Palakkad, India)
[1571030836]
-
- 7 *Wide Angle Stable Non-Resonant Inductive Grid Loaded Modified Jerusalem Cross FSS for Microstrip Antenna Gain Enhancement*
Amith P Joy (Indian Institute of Technology Palakkad, India); Soumik Dey (Indian Institute of Technology Palakkad, India); Athul O Asok (Indian Institute of Technology Palakkad, India); Sukomal Dey (Indian Institute of Technology Palakkad, India)
[1571032131]
-
- 8 *Frequency Selective Surface Based Absorber/Rasorber With Transmission Absorption Transmission Response*
Neeharika Verma (Guru Ghasidas Vishwavidyalaya Bilaspur, India); Shrey Anant Sandiman (Central University Bilaspur, India); Deepak Rathore (IIT Guwahati & GGV Bilaspur, India); Nipun Kumar Mishra (Guru Ghasidas Vishwavidyalaya Central University, India)
[1571026475]
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Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS27 (*Navigation Technologies-I*)

Session time	Tue, Jul 23 11:00-13:00
Location	Hibiscus 2
Talk time per paper	15

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>Design of Error Handling and Redundancy Management of Dual Redundant GNSS Embedded Navigation Computer for Launch Vehicle Missions</i></p> <p>Biju V S (ISRO, India); Vinoj VS (ISRO, India); Aneesh Thampi (ISRO, India); Mohammed Basim (ISRO, India); Anand Shankar (ISRO, India); Krishan Kumar (ISRO, India); Rekha AR (ISRO, India); Radhakrishna Pillai C (ISRO, India) [1571025876]</p>		
2	<p><i>Aerodynamic Angle Estimation of a Fighter Aircraft Under Highly Maneuverable Conditions Without GPS</i></p> <p>Shikha Jain (National Aerospace Lab & CSIR- NAL, India); Kamali Chandrasekaran (CSIR National Aerospace Laboratories, India) [1571032099]</p>		
3	<p><i>Evaluation of Navigation Solution Using Carrier Doppler Shifts From LEO Constellations and Its Combination With NavIC</i></p> <p>Vimalkumar Bhandari (Indian Space Research Organisation (ISRO), India); Nishkam Jain (Indian Space Research Organisation (ISRO), India); Puneet Kumar Agrawal (Indian Space Research Organisation (ISRO), India); Raksha Rai (Indian Space Research Organisation (ISRO), India) [1571025843]</p>		
	<p><i>Relative Terrain Navigation Based Lunar Lander Simulator Using Computer Vision Techniques</i></p> <p>Sudip Mondal (Indian Institute of Technology Bombay, India); Sukumar Srikant (Indian Institute of</p>		

4 Technology Bombay, India)
[1571025952]

5 *Modeling of X-Ray Pulsar Timing Profiles and Its Impact on Position Estimation for Navigation*
Subhajit Majumder (Star Sensor System Group, Laboratory for Electro-Optics Systems, ISRO & Department of Electronic Systems Engineering, Indian Institute of Science, India); Koushal Vadodariya (Space Astronomy Group, U R Rao Satellite Centre, ISRO, India); Radhakrishna V. (Space Astronomy Group, U R Rao Satellite Centre, ISRO, India); Mayank Shrivastava (Indian Institute of Science Bangalore, India); Gyanendra Kumar Kashyap (Star Sensor System Group, Laboratory for Electro-Optics Systems, ISRO, India)
[1571026496]

6 *Safe Deep Reinforcement Learning-Based Controller (SDRLC) for Autonomous Navigation of Planetary Rovers*
Rudrashis Majumder (Indian Institute of Science, India); Ravi Kiran Jana (Indian Space Research Organization, India); Bharathwaj K S (Indian Institute of Science, India); V Sundaram Suresh (Indian Institute of Science, India)
[1571030654]

7 *Acquisition and Tracking of NavIC L1 SPS Signals*
Chittimalla Srinu (Osmania University & NERTU, India); Laxminarayana Parayitam (Osmania University, India)
[1571030589]

8 *First Pioneering Soil Moisture Estimation Software Leveraging Navigation Signals From India's NavIC Satellite*
Vivek Chamoli (Graphic Era Hill University Dehradun, India)
[1571032009]

Comments

IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)



PD3 (*Panel Discussion on AI/ML Driving the Future of SPACE*)

Session time Tue, Jul 23 11:00-12:00

Location Convention Centre

Comments

IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)



PD4 (*Panel Discussion on Futuristics Technologies for Space*)

Session time Tue, Jul 23 12:00-13:00

Location Convention Centre

Comments

IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)



Lunch & Exhibit Visit

Session time Tue, Jul 23 13:00-14:00

Location Convention Centre

Comments

IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)



OS28 (*Reserved Session*)

Session time	Tue, Jul 23 14:00-16:00
Location	Amaryllis
Talk time per paper	15

Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS29 (*Special Session on Human in Space/Simulators*)

Session time	Tue, Jul 23 14:00-16:00
Location	Petunia
Talk time per paper	15

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>Embedded Crew Interface and Display System for Gaganyaan Mission</i> Vikas Singh (Indian Space Research Organisation, India); Saravana B Kumar (Indian Space Research Organisation, India); Abhishek Kunal (Indian Space Research Organisation, India); Satyendra Kumar (Indian Space Research Organisation, India); Ritesh Kumar Sharma (Space Applications Centre, India) [1571030471]</p>		
2	<p><i>Fault Tolerant Crew Cabin Systems Controller for Gaganyaan</i> Kiral Ghodadra (Space Applications Centre, ISRO, India); Avadhesh Kumar (Space Applications Centre, ISRO, India, India); Ramesh Kumar (Space Applications Centre, ISRO, India, India); Rahulkumar M Dhingani (Space Applications Centre, ISRO, India); Himanshu Patel (Indian Space Research Organisation (ISRO), India); Saravana B Kumar (Indian Space Research Organisation, India) [1571030056]</p>		
3	<p><i>Comparison of View Orientation in Manned Spacecraft Through Virtual Reality Simulation</i> Ajit Krishnan (ISRO, India); Himanshu Vishwakarma (Indian Institute of Science, Bangalore, India); Maharudra Kharsade (Indian Institute of Science, India); Pradipta Biswas (Indian Institute of Science, India) [1571030381]</p>		
	<p><i>Spacecraft Manipulator System Simulator</i> Anumandla Sukrutha (Indian Space Research Organisation, India); Gopalakrishnan L (Indian Space Research Organisation, India); Pallabi Sinha (Indian Space Research Organisation, India); Pranay Pallav</p>		

4 Tripathi (Indian Space Research Organisation, India); Raghav Hariharan (Indian Space Research Organisation, India); Sathwik Reddy Majji (Indian Space Research Organisation, India); Shikhar D (Indian Space Research Organisation, India); Sreelatha A (Indian Space Research Organisation, India)
[1571030630]

5 *Design and Characterization of Thruster System Using Blowers for Upcoming Spacecraft Simulator*
Aditya Prakash (Indian Institute of Technology Kanpur, India); Mokkapati Shanmukha Sree (Indian Institute of Technology Kanpur, India); Nitika Jaggi (Indian Institute of Technology Kanpur, India); Dipak Kumar Giri (IIT KANPUR, India)
[1571030831]

6 *Design and Evaluation of an Early Fire Detector for Human Space Capsule*
Badrisha R (PES University, India); Hrishikesh Milind Gawas (PES University, India); Akash Gupta (SAC-ISRO, India); Payal Sharma (SAC-ISRO, India); Manikandan J (PES University (PESU), India)
[1571025847]

Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS30 (*THz Technologies*)

Session time	Tue, Jul 23 14:00-16:00
Location	Poinsettia 1
Talk time per paper	15

Paper	Paper details	Was the paper presented?	Name of presenter
1	<i>Design of Compact, Coherent, High Power THz Backward-Wave Oscillator</i> Vishnu Srivastava (CSIR-Central Electronics Engineering Research Institute Pilani & Academy for Scientific & Innovative Research (Ac-SIR), New Delhi, India) [1571015097]		
2	<i>Terahertz-Based Nondestructive Testing of Ceramic Matrix Composites</i> A. Mercy Latha (Central Electronics Engineering Research Institute, India); Rishi Ranjan (Central Electronics Engineering Research Institute, India); Vijay Petley (Gas Turbine Research Establishment, India) [1571030343]		
3	<i>Terahertz Package Scanner for Detection of Concealed Objects</i> Nimish Dixit (Defence R&D Organization, India); Ajay Mishra (DRDO, India); Sudhir Khare (DRDO, India); Shriganesh Prabhu (TIFR, India); Ajay Kumar (DRDO, India); Binoy Kumar Das (DRDO, India) [1571030532]		
4	<i>Far Field Antenna Measurement System Using Frequency Extenders in Sub-THz Frequency Range</i> Dharmendra Singh (Space Applications Centre, SAC ISRO & Not Applicable, India) [1571028649]		
	<i>Metasurface Perfect Absorber With Wide Frequency Tunability for Smart Terahertz Applications</i> Naveen Kumar Maurya (Vishnu Institute of Technology, Bhimavaram, India); G. Challa Ram (Shri Vishnu		

5 Engineering College for Women, India)
[1571027772]

6 *Compound Planetary Gearbox Based Geared Rotary Actuator*
Anuj Kumar Singh (R&DE DRDO, India); Surender Sharma (R&DE DRDO, India); Sanjay Kumar (R&DE DRDO, India); Tushar Kant Santosh (R&DE DRDO, India); Sriramulu Kant Bokka (R&DE DRDO, India)
[1571029685]

Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS31 (System Engineering)

Session time	Tue, Jul 23 14:00-16:00
Location	Poinsettia 2
Talk time per paper	15

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>MBSE Driven End to End LEO Satellite to Ground Station Communication System</i> Tejkiran Arun Patil (Ansys, India); Nijas Cm (Ansys Software Pvt Ltd & Ansys, India); Himangshu Bora (Ansys Inc, India); Tejas Jeurkar (Ansys Inc., India); Shital Joshi (Ansys, India); Aniruddha Mukhopadhyay (Ansys, USA) [1571030122]</p>		
2	<p><i>Manned Intelligence Surveillance and Reconnaissance (Manned-ISR) Systems - an Indigenous Approach</i> Jayaprakash K P (CABS, DRDO, India); A S Kumaran (CABS DRDO, India); Santhya P (CABS, India); K Rajalakshmi Menon (CABS, India) [1571030069]</p>		
3	<p><i>Easing Adoption of Model Based System Engineering With Application of Generative AI</i> Anamika Patel (CABS, India); Maheshwaran Y (CABS, India); Santhya P (CABS, India) [1571025765]</p>		
4	<p><i>Centralized Simulation Controller Framework for Airborne Sensor Simulation</i> Rajesh Gandhi (CABS, India); R Rajesh (CABS, India) [1571029599]</p>		
5	<p><i>Retarding Field Energy Analyzer for Measurement of Ion Energy Distribution in Cold Plasma</i> James Raja S (National Institute of Technology Calicut, India); Anuj Sharma (National Institute of Technology Calicut, India); Sayani Guha (National Institute of Technology Calicut, India); Lintu Rajan</p>		

(NITC, India); Venu Anand (National Institute of Technology Calicut, India)
[1571025865]

6

Electromagnetic Compatibility in Wearable Devices Using Artificial Magnetic Conducting Surfaces

Ashish Raj (Birla Institute of Technology Mesra, India); Nisha Gupta (Biral Institute of Technology, Mesra, India); Itu Snigdha (BIT Mesra, India)
[1571030123]

7

Effective EMI Mitigation Techniques for Enhancing EVM Performance in Digital System

Jigar Limbachiya (Space Applications Centre & Indian Space Research Organization, India); Mukesh K Patel (Space Applications Centre, ISRO, India); Neeraj Mishra (Indian Space Research Organization India, India); Bhuwaneshwar Semwal (Space Applications Centre, ISRO, India); Anil Shah (SAC, ISRO, India); Shilpa Pandya (Space Applications Centre (ISRO), India)
[1571030099]

8

A Mode Converting Antenna Based on Step Waveguide Discontinuities for High Power Microwave Applications

Neha Parmar (BITS PILANI HYDERABAD, India); Narain Shriram M. S. (BITS Pilani Hyderabad Campus, India); D Ratan Sanjay (DRDO, India); Runa Kumari (Birla Institute of Technology & Science, Pilani, Hyderabad Campus, India & None, unknown); Harish V. Dixit (Birla Institute of Technology and Science-Pilani, Hyderabad Campus & Vidyavardhini's College of Engineering and Technology, India)
[1571030528]

Comments

IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)



OS32 (*Special Session on AI/ML Technologies for SPACE-IV*)

Session time	Tue, Jul 23 14:00-16:00
Location	Heliconia 1
Talk time per paper	15

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>Image Based Spacecraft Health Evaluation by AIML Based Expert System</i> Bijoy Kumar Dai (ISTRAC & Jadavpur University, India); Debashish Paul (ISTRAC, India); Priyanka Singh (ISTRAC, India); Gubbala Kiran (ISTRAC, India); Roopa Mv (ISTRAC, India); Leo Jackson (ISTRAC, India); Nandini Harinath (ISTRAC, India); B N Ramakrishna (ISTRAC-ISRO, India) [1571024657]</p>		
2	<p><i>Interactive YOLO-Based Object Detection Using a Polygonal Region of Interest for Airborne Surveillance Applications</i> Jithin Vinod (New Horizon College of Engineering, Bengaluru, India); TM Dhipu (Center of Airborne Systems, DRDO, India); R Rajesh (Center of Airborne Systems, DRDO, India) [1571030200]</p>		
3	<p><i>ML Driven Thermal Analysis for a Real-Time Control System in Satellites</i> Himangshu Bora (Ansys Inc, India); Prem Andrade (Ansys Inc., India); L. Srinivasa Mohan (Ansys Inc., India); Akira Fujii (Ansys Inc., Japan); Hemesh Patil (Ansys Inc., India); Tejas Jeurkar (Ansys Inc., India) [1571025594]</p>		
4	<p><i>Aerodynamic Design Optimization of an Aerospace Vehicle Using Automated Data-Driven Machine Learning Technique</i> Shiladitya Bhowmick (DRDL DRDO & IIT CHENNAI, India); Shruthi Bogoju (Axiomatic iTech Pvt. Ltd., India); S Rama (DRDL DRDO, India)</p>		

[1571030810]

5 *Anomaly Detection in Spacecraft Telemetry Using Similarity Metrics and Isolation Forest*
Mahesh Bollam (MCF, ISRO, India); Praful H Roy (MCF, India); Anuj Jagtap (MCF, India); BALARAM MULLAPUDI (Indian Space Research Organisation, India); Anjali Verma (MCF, India)
[1571026165]

6 *U-Net Based Semantic Segmentation of Still Water Bodies Using Aerial Images*
Siva Kumar Kuttuboina (Velagapudi Ramakrishna Siddhartha Engineering College, India); Gunnam Surya Narayana (Velagapudi Ramakrishna Siddhartha Engineering College, India); Likhitesh Pekala (Velagapudi Ramakrishna Siddhartha Engineering College, India); Moksha Yagna Kumar Anagani (Velagapudi Ramakrishna Siddhartha Engineering College, India)
[1571016701]

7 *Deep Learning Enabled Algorithm for Automatic Modulation Classification*
Brahmjit Singh (National Institute of Technology Kurukshetra, India); Shalu Shalu (NIT Kurukshetra, India); Chandra Prakash (Space Applications Centre & ISRO, India)
[1571030402]

8 *An Automatic Modulation Classifier Based on Convolutional Neural Network Architecture*
Poonam Jindal (NIT Kurukshetra, India); Vasu Mittal (NIT Kurukshetra, India); Saransh Goyal (NIT Kurukshetra, India)
[1571030603]

Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS33 (*Mission Planning/Control & Guidance-II*)

Session time	Tue, Jul 23 14:00-16:00
Location	Heliconia 2
Talk time per paper	15

Paper	Paper details	Was the paper presented?	Name of presenter
1	<i>Obtaining Smoothed Airdata During Wake Penetrations and Atmospheric Disturbances</i> Kamali Chandrasekaran (CSIR National Aerospace Laboratories, India) [1571023636]		
2	<i>Fusion of Flush Port Measurements With Inertial Sensors</i> Kamali Chandrasekaran (CSIR National Aerospace Laboratories, India) [1571025393]		
3	<i>Software-In-The-Loop Simulation for Low-Speed, High-Altitude Platform</i> Shikha Jain (National Aerospace Lab & CSIR- NAL, India); Omkar Halbe (Senior Scientist, India); Kapil Sachan (CSIR National Aerospace Laboratories, India); Vijeesh Theningaledathil (CSIR National Aerospace Laboratories, India); Suraj C (NAL, India); Avinash Nayak (NAL, India) [1571026080]		
4	<i>Beyond Boundaries: Collaborative Task Completion Using Heterogeneous Swarm</i> Rudraksha Rajendra Bandodkar (Goa College of Engineering, India); Steven Tambi Vazhappully (Goa College of Engineering, India); Akarsh Sharad Malvekar (Goa College of Engineering, India); Amogha Sushant Kantak (Goa College of Engineering, India); Milind Fernandes (Goa University, India) [1571026245]		
5	<i>Aero-Thermo Elasticity Effect on a Re-Entry Vehicle With Mach 2 and 3</i> Alolika Mahanty (MTECH Defence Technology & Amity University, India)		

[1571028784]

6 *Multi-Axis Compensation Strategy for Achieving Velocity Vector Roll*
Kapil Sachan (CSIR National Aerospace Laboratories, India); Guruganesh R (CSIR National Aerospace Laboratories, India); Jayalakshmi M (Aeronautical Development Agency, India)
[1571030055]

7 *Robust Stability Analysis of 2-D Dynamical Systems for Applications in Automation and Astronomy*
Rishi Nigam (National Institute of Technology Uttarakhand, India); Rahul Prakash (National Institute of Technology Uttarakhand, India); Siva Kumar Tadepalli (National Institute of Technology Uttarakhand, India)
[1571030324]

8 *Stability Analysis, Testing and Realization of a Floating Target*
Rajib Kumar Das (Integrated Test Range, India); Milan Pal (FM University, India)
[1571030445]

Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS34 (SIW/Vivaldi/Spiral Antennas)

Session time	Tue, Jul 23 14:00-16:00
Location	Tulip
Talk time per paper	15
Chaired by	Koushik Dutta (West Bengal University of Technology & Netaji Subhash Engineering College, India)

Paper	Paper details	Was the paper presented?	Name of presenter
1	<i>A Novel Wideband Complementary SIW Backed Edged Spiral Antenna for Radio Telescope Applications</i> Suryansh Saxena (Jaypee Institute of Information Technology, India); Nidhi Tewari (Jaypee Institute of Information and Technology, India); Abhay Kumar (Jaypee Institute of Information Technology Noida, India); Shweta Srivastava (Jaypee Institute of Information Technology, India) [1571030803]		
2	<i>SIW-Based Planar Cavity-Backed Slotted Leaky Wave Antenna for X-Band Applications</i> Yash Chaughule (VNIT, India); Arvind Kumar (Visvesvaraya National Institute of Technology Nagpur, India) [1571030659]		
3	<i>High Gain Wideband 2×8 SIW-Based Antenna Array for Futuristic 6G Applications at W-Band</i> Karthik Gugulothu (Indian Institute of Technology (ISM) Dhanbad, India); Amit Kr. Pandey (IIT ISM Dhanbad, India); Akash Deep Singh (IIT ISM Dhanbad, India); Kundan Suman (IIT ISM, India); Ravi Kumar Gangwar (IIT ISM Dhanbad, India) [1571029488]		
4	<i>Low RCS Vivaldi Antenna (1GHz-18GHz) for Electronic Warfare Applications</i> Najma K. (CSIR-National Aerospace Laboratories, Bangalore, India); Subhanya C. P. (CSIR-National Aerospace Laboratories, Bangalore, India); Vineetha Joy (CSIR-National Aerospace Laboratories, India); Hema Singh (CSIR-National Aerospace Laboratories, Bangalore, India)		

[1571015164]

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|---|---|
| 5 | <p><i>Design of L-Band Metal Type Vivaldi Antenna Array</i>
 Vismitha Pramod (Engineer Contract, India); Shahla K P (Scientist, India); Shahul Hameed V (Scientist, India); Chinni Prabhunath G (None, India)
 [1571030466]</p> |
| 6 | <p><i>EM Design and Performance Analysis of Cavity-Backed Archimedean Spiral Antenna (2-18 GHz)</i>
 Shrikrishan Baghel (CSIR-National Aerospace Laboratories, India); Abhina Manoj K. (CSIR-NAL, Bangalore, India); Christy Aby Prasad (CSIR-National Aerospace Laboratories, Bangalore, India); Vineetha Joy (CSIR-National Aerospace Laboratories, India); Hema Singh (CSIR-National Aerospace Laboratories, Bangalore, India)
 [1571016416]</p> |
| 7 | <p><i>Resistively Loaded Cavity-Backed Spiral Antenna for Optimal Antenna-Plasma Coupling in Tokamaks</i>
 Dimple Yadav (Banasthali Vidyapith, India); vaishali singh (Banasthali Vidyapith, India); Tiwari Poonam (Banasthali Vidyapith, India); Meenu Kaushik (Banasthali Vidyapith, India); Anshuman Shastri (Banasthali Vidyapith, India); Raj Singh (IPR Gandhinagar, India); Vishant Gahlaut (Banasthali Vidyapith, India)
 [1571026297]</p> |
| 8 | <p><i>Optimizing the Design of an Ant-Shaped Millimeter-Wave Antenna for Broadband Applications: 9 to 100 GHz</i>
 Manish Varun Yadav (Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, Karnataka, India); Lanston Pramith Fernandes (Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, India); HARSHITHA M (Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, India); Swati Varun Yadav (Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, India)
 [1571020239]</p> |

Comments

IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)



OS35 (*Filters & Passive Microwave Devices*)

Session time	Tue, Jul 23 14:00-16:00
Location	Hibiscus 1
Talk time per paper	15

Paper	Paper details	Was the paper presented?	Name of presenter
1	<i>Design of Split Ring Resonator for EM Waves Absorbers and Stop Band Filters in Aerial Applications</i> Bharti Gajendra (Integrated Test Range, India); Pravakar Mallick (Integrated Test Range, Chandipur & Balasore, Odisha, India); Milan Pal (FM University, India) [1571030477]		
2	<i>Design of Wide Bandwidth Filter at S-Band for Spacecraft Testing Applications</i> Abhilasha Agarwal (UR Rao Satellite Center, Indian Space Research Organisation, India, India); Raja Sharma (UR Rao Satellite Center, Indian Space Research Organisation, India); Viswanadha Srivani (UR Rao Satellite Center, Indian Space Research Organisation, India); MD. Tosicul Wara (UR Rao Satellite Center, Indian Space Research Organisation, India) [1571029153]		
3	<i>Improved Clutter Correction Technique Using Recursive Comb Notch FIR Filter</i> Anindya Ghosh (BGSW, India); Debashish Chakravorty (IIT Kharagpur, India); Ajay Chakraborty (Techno India University, India) [1571027130]		
4	<i>Compact C Band High Rejection Cavity Bandpass Filter</i> Shashank Soi (DRDO, India); Sushil Singh (Defence Electronics Applications Laboratory, India); Rajendra Singh (SCIENTIST, India) [1571026359]		

- 5 *Small Scale Bandpass Filter Having Wide Rejection Bandwidth*
Dilip Kumar Choudhary (Vellore Institute of Technology, India)
[1571025999]
-
- 6 *Coupled Line Wide Stop Band Diplexer Using Stepped Impedance Resonator*
Anindya Ghosh (BGSW, India); Debashish Chakravorty (IIT Kharagpur, India); Ajay Chakraborty (Techno India University, India)
[1571026500]
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- 7 *Design of Microwave Sensor for CFRP Coating Thickness Measurement Using Odd Mode Electric Coupling Cavity Aperture*
Fateh Lohar (Visvesvaraya National Institute of Technology Nagpur Nagpur, India); Neeraj Rao (Visvesvaraya National Institute of Technology Nagpur, Maharashtra & Ministry of Human Resource and Development, India)
[1571030541]
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- 8 *Design of Coaxial Cavity Duplexer for Space Applications*
Vaishnavi Bhope (ANSYS SOFTWARE PVT. LTD., India); Sharon Varghese (Ansys Software Pvt. Ltd., India); Nijas Cm (Ansys Software Pvt Ltd & Ansys, India)
[1571030802]
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Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS36 (*System Reliability & QA*)

Session time	Tue, Jul 23 14:00-16:00
Location	Hibiscus 2
Talk time per paper	15
Chaired by	

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>Reliability Modelling of Complex Satellite Transmitter System With Common Element and Shared Redundancy Using Markov Chain</i></p> <p>Akshaya Kumar Sahu (Space Applications Centre (ISRO), India, India); Satya Priya Mittal (Space Applications Centre (ISRO), India); Manish Mehta (Space Applications Centre (ISRO), India); Shilpa Pandya (Space Applications Centre (ISRO), India) [1571025487]</p>		
2	<p><i>Quality Compliance of HDI PCBs for Space Use</i></p> <p>Praveen Jha (Space Applications Centre (ISRO), India, India); Mukesh Kumar Patel (Space Applications Centre (ISRO), India, India); Rajeev Kumar (Space Applications Centre (ISRO), India, India); Ravindra K Hegde (Space Applications Centre ISRO, India); Shilpa Pandya (Space Applications Centre (ISRO), India) [1571025616]</p>		
3	<p><i>Software Complexity Measurement for Flight Software</i></p> <p>Savitha A (India); Pushpavathi T. P Pushpavathi (Pushpavathitp, India); Yogesh Kr (URSC Bangalore, India); Prasanna Kumar (RQSG, India) [1571029413]</p>		
	<p><i>Quality Assurance in the Development of Indigenous AEWG System</i></p>		

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| 4 | Annapurna Sogunuru (CABS, India); Gokul Depuk TP (CABS, India); Gracy Philip (CEMILAC, India); K Rajalakshmi Menon (CABS, India)
[1571030349] |
| 5 | <i>Reliability Analysis of Satellite Data Reception System</i>
Sridevi Ch (ISRO, India); Shailender Kumar SP (ISRO, India); Chalapathi Rao A (ISRO, India); Aparna N (ISRO, India)
[1571030474] |
| 6 | <i>NSGA II Pareto Optimal Solutions for Antenna Locations on a Commuter Aircraft</i>
Veena Haridas (CSIR-National Aerospace Laboratories, India); Vaitheeswaran M (National Aerospace Laboratories, India); Prathiksha M V (CSIR National Aerospace Laboratories, India)
[1571030484] |
| 7 | <i>Integrated Quality Management System Aligning System Engineering With Aerospace Standard AS9100D 2016</i>
GRACY PHILIP (CABS, India); Gokul Depuk TP (CABS, India); Rakesh Raikwar (CABS, India); K Rajalakshmi Menon (CABS, India)
[1571030561] |
| 8 | <i>Neighbour Aware Atomic Embeddings - A Deep Neural Network Based Technique for Effective Representation of Local and Global Structural Information About Atoms</i>
Valli Kumari Vatsavayi (Andhra University, India); K Swathi Lakshmi Durga (Andhra University, India); Utkarsh Bharadwaj (BARC, India); Manoj Warriar (BARC, India)
[1571032127] |

Comments

IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)



PD5 (*Role of Standards in SPACE*)

Session time Tue, Jul 23 14:00-15:00

Location Convention Centre

Comments

IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)



PD6 (*Opportunities for Large and MSME in Defence and Aerospace*)

Session time Tue, Jul 23 15:00-16:00

Location Convention Centre

Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

TB4 (*Tea/Coffee Break & Exhibit Visit*)

Session time Tue, Jul 23 16:00-16:30

Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS37 (*Ground Support Technologies*)

Session time	Tue, Jul 23 16:30-18:30
Location	Petunia
Talk time per paper	15

Paper	Paper details	Was the paper presented?	Name of presenter
1	<i>Spacecraft Operations Automation: Software Solutions for Ground Segment</i> Anuj Nogja (MCF, ISRO, India); Manish Kumar (MCF, ISRO, India) [1571025104]		
2	<i>The Strategic Role of ISRO's Polar Ground Station in Space Data Acquisition and Global Collaboration</i> Chinmay Kumar Patra (Space Applications Centre & Indian Space Research Organisation, India); Sahal Mohammed M. N. (ISRO Telemetry Tracking and Command Network, India); Sudhakar Kandukuri (National Remote Sensing Centre, India) [1571026191]		
3	<i>Automating Ground System Using Baseband Monitoring and Control Software (BMCS)</i> Jitendra Kumar Kapse (MCF ISRO, India); Ashfaque K P (MCF, ISRO, India); Surendra C (MCF, ISRO, India) [1571026481]		
4	<i>Efficient Utilization of Single Ku Band Ground Terminal for Co-Located Satellites TTC Operation</i> Hridesh Kumar (ISRO, India); Deepak Kumar (ISRO, India); Shraddha Gupta (ISRO, India); Javed S A R Qureishi (ISRO, India) [1571029981]		
	<i>Statistical Size Estimation of Solid Stage Debris Ejected During Satellite Launch Vehicle From Ground Based Active Phased Array Radar Observations</i>		

- 5 Vaidhyanathan A (Scientist, India); Aditya Sarkar (Scientist, India); Sravan Kumar Venepally (Satish Dhawan Space Center, Sriharikota, India); Rajkumar S (Scientist, India)
[1571030546]
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- 6 *Advancing Deep Space Mission Orbit Determination: A Novel Approach for Doppler Data Collection and Processing*
Bijoy Kumar Dai (ISRO, India); Manikantan Ramdas (ISTRAC, India); Nandini Harinath (ISTRAC, India); Sheli Sinha Chaudhuri (Jadavpur University, India)
[1571025388]
-
- 7 *Enhancement of Space Link Extension (SLE) Provider Software for Return Channel Frame (RCF) Service*
Divyang Arora (Indian Space Research Organization, India); Md. Adnan (Indian Space Research Organization, India); M. Parvathi Devi (Indian Space Research Organization, India); S Santhalakshmi (Indian Space Research Organization, India)
[1571026122]
-
- 8 *Incorporation of Automation Modalities Into SAR Data Processing Operations to Expedite and Enhance Problem Resolution*
Jayasri V Poludasu (National Remote Sensing Centre, India); Samvram Sahu (National Remote Sensing Center, ISRO, India); Niharika Karumuri (ISRO, NRSC, India); Aakashneel Basak (NRSC, ISRO, India); Ramu Yerukala (NRSC, ISRO, India); H. S. V. Usha Sundari Ryali (ISRO, NRSC, India); Sarma Manju (NRSC, India)
[1571030502]
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Comments

IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)



OS38 (Radar Technologies-II)

Session time	Tue, Jul 23 16:30-18:30
Location	Poinsettia 1
Talk time per paper	15
Chaired by	Anil Kumar Singh (LRDE, India)

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>Miniaturized Reconfigurable Frequency Synthesizer Module for MiniSAR Airborne Mission</i> Nilesh Makwana (Space Applications Centre, ISRO, India); Shruti Sinha (SAC, ISRO Ahmedabad, India); MOHIT KUMAR (SAC, ISRO, India); Jolly Dhar (Space Applications Centre, ISRO, India); Cvn Rao (Space Applications Centre (ISRO), India) [1571030600]</p>		
2	<p><i>Multi-Channel Data Acquisition and Digital Beam Forming System for Space-Borne Sweep SAR Mission</i> Shalini Gangele (Space Applications Centre, ISRO, India); Vipin Prajapati (Space Application Centre ISRO, India); Samrat Sinha (SAC, ISRO, India); Rinku Atulkumar Agrawal (Space Application Centre ISRO, India); Himanshu Patel (Indian Space Research Organisation (ISRO), India); Vikas Singh (Indian Space Research Organisation, India); Saravana B Kumar (Indian Space Research Organisation, India); Cvn Rao (Space Applications Centre (ISRO), India) [1571026144]</p>		
3	<p><i>NovaSAR-Automated Data Processing for Geometric Correction and Radiometric Terrain Normalization for Analysis Ready Data</i> HariPriya Saketapuram (Indian Space Research Organization & NATIONAL REMOTE SENSING CENTRE, India); Samvram Sahu (National Remote Sensing Center, ISRO, India); Usha Hsv (ISRO, India); Sarma Manju (NRSC, India); Prakash Chauhan (NRSC, ISRO, India)</p>		

[1571030510]

Development of Intelligence Software for GPR Investigation of Buried Object

4

Sangeeta Tarai (National Institute of Technology, Rourkela, India); Swarna Panda (National Institute of Technology, Rourkela, India); Buddepu Santhosh Kumar (National Institute of Technology, Rourkela, India); Ajit Sahoo (NIT Rourkela, India); Subrata Maiti (National Institute of Technology, Rourkela, India)
[1571030583]

Chebyshev-Amplitude Distribution in X/Ku-Band Shared Aperture Antenna Array With Open, Short, and Load-Ended Series Feed for Airborne Synthetic Aperture Radar Applications

5

Venkata Kishore Kothapudi (Vignan's Foundation for Science Technology and Research, India); Kati Praveena (Vignan's Foundation for Science, Technology and Research, India)
[1571031062]

Classification of Ground Penetrating Radar Data Using YOLOv8 Model

6

Pramod Goyal (NIT Rourkela, India); Sangeeta Tarai (National Institute of Technology, Rourkela, India); Subrata Maiti (National Institute of Technology, Rourkela, India); Prasun Chongder (NIT Rourkela, India)
[1571031854]

Gain Enhanced Linear Rectangular Dielectric Resonator Antenna Array for RADAR Applications

7

Mohith N Raate (R V College of Engineering, India); Amogh G (RV College of Engineering, India); Shushrutha K S (RVCE Bangalore, India)
[1571030837]

Modeling of mmWave FMCW Radar System for 2D SAR Imaging

8

Chandra Wadde (SRM University AP, India); Rajesh Shankar Karvande (DRDO, India); Rupesh Kumar (SRM University AP, India)
[1571030634]

Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS39 (*Communication Technologies-II*)

Session time Tue, Jul 23 16:30-18:30

Location Poinsettia 2

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>Efficient FPGA Implementation of SISO-OTFS Modem for Aircraft Communications in High-Doppler Scenarios</i></p> <p>Md Asfani (Central Research Laboratory, India); Sapta Girish Babu Neelam (Indian Institute of Technology Bhubaneswar & Bharat Electronics Limited, India) [1571019435]</p>		
2	<p><i>Novel Architecture for Communication Channelizer</i></p> <p>POONAM PANCHAL (Defence Electronics Application Laboratory, India); Gaurav Kapur (Defence Research Development Organization, India) [1571026231]</p>		
3	<p><i>Chirp Orbital Angular Momentum Beams for Robust Communications in Adverse Propagation Conditions</i></p> <p>Ravi Kadlimatti (Birla Institute of Technology and Sciences, Pilani, India); Farhana Firdous (BITS-PILANI KK BIRLA GOA CAMPUS, India) [1571030705]</p>		
4	<p><i>Model-Based Design for Solid State RF Power Transmitters for OFDM Applications</i></p> <p>Ravi Dheeravath (MathWorks India Pvt Ltd, India); Sourabh Mukund Joshi (MathWorks India Private Limited, India); Shashank Kulkarni (MathWorks India Private Limited, India); Abhishek Tiwari (Mathworks India Private Limited, India) [1571024639]</p>		
	<p><i>Receiver Support Performed Congestion Control for TCP Over Lossy Links</i></p>		

5 Satendra Kumar Yadav (DEAL, India); Tulip Kumar Toppo (RCI, India); Sugata Gangopadhyay (Indian Institute of Technology Roorkee, India)
[1571025245]

Over-The-Air Phased Array Antenna Calibration Performance Validation and Comparison: An Experimental Approach

6 Anik Saha (Space Applications Centre, India); Shiv Shankar Pareek (ISRO & Space Applications Centre, India); Jatin Trivedi (Space Applications Centre, India); Rakesh Vyas (Space Applications Centre, India)
[1571030195]

Current Status for COCHISA, the European Ka-Band and X-Band Core-Chips for Space Applications

7 Fabian Vargas (Leibniz Institute for High Performance Microelectronics, Germany); Corrado Carta (IHP - Leibniz Institut für Innovative Mikroelektronik & Technische Universität Berlin, Germany); Andrea Malignaggi (IHP, Germany); Milos Krstic (IHP, Germany); Nicola Pelagalli (Marche Polytechnic University, Italy); Aniello Franzese (IHP - Leibniz Institute for High Performance Microelectronics, Italy); Ulrich J Lewark (IMST GmbH & Fraunhofer Institute of Applied Solid State Physics (IAF), Germany); Rüdiger Follmann (IMST GmbH, Germany); Federico Pergolesi (Paradigma Technologies, Italy); Sarah Jann (IHP Solutions, Italy)
[1571030184]

Band Grouping: Leveraging Spectral Correlation for Improved HSI Processing

8 Sadia Hussain (IIT Delhi, India); Brejesh Lall (Indian Institute of Technology Delhi, India)
[1571031075]

Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS40 (*Special Session on AI/ML Technologies for SPACE-V*)

Session time	Tue, Jul 23 16:30-18:30
Location	Heliconia 1
Talk time per paper	15

Paper	Paper details	Was the paper presented?	Name of presenter
1	<i>Dynamic Stability-Driven Torque Control and Trajectory Planning for a FFSM Using PINNs</i> Urvi Haval (MIT WPU, India); Ananya A Mallik (MIT WPU & SoECE, India); Sumitra Narayan Motade (Dr Vishwanath Karad MIT World Peace University & MIT-WPU Pune, India) [1571030670]		
2	<i>Preliminary Analysis of mmWave SAR Model and Machine Learning Approach</i> Rupesh Kumar (SRM University AP, India); Chandra Wadde (SRM University AP, India); Gayatri Routhu (SRM University AP, India); Rajesh Shankar Karvande (DRDO, India) [1571032068]		
3	<i>Generation of Automatic Spectral Classification Map Using Clustering at the South Pole-Aitken Basin on the Moon</i> Taisei Shibakura (University of Aizu, Japan); Yohiko Ogawa (University of Aizu, Japan); Uday Kiran Kiran Rage (The University of Aizu & NICT, Japan); Makiko Ohtake (University of Aizu, Japan) [1571026062]		
4	<i>Securing Industrial IoT Networks Using Conv2D-Attention Approach With Softmax Classifier</i> Bhavya Bhola (Indian Institute of Information Technology, Sri City Andhra Pradesh India, India); Ayan Raza (Indian Institute of Information Technology Sri City Andhra Pradesh India, India); Rajeev Kumar (Indian Institute of Information Technology, Sri City Andhra Pradesh India, India) [1571029808]		

- 5 *rasterMiner: An Open-Source Python Library to Discover Knowledge From Raster Imagery Data*
Veena Pamalla (The University of Aizu, Japan); Uday Kiran Kiran Rage (The University of Aizu & NICT, Japan); Yohiko Ogawa (University of Aizu, Japan); Makiko Ohtake (University of Aizu, Japan)
[1571026662]
-
- 6 *Estimating Actual Size of Missile on Air Using Object Detection Algorithm*
Thenmozhi M (SRM Institute of Science and Technology, India); Fancy C (SRM Institute of Science and Technology, India); S. Haaniya Iram (SRM Institute of Science and Technology, India)
[1571030519]
-
- 7 *Blue Whale Tracking Using Space-Borne Remote Sensing Data: Edge Device Integration*
S Vasavi (VR Siddhartha Engineering College, India); Prudhvi Narayana Bandaru (VRSEC, India); Balasai Sigireddy (Velagapudi Ramakrishna Siddhartha Engineering College, India)
[1571031937]
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- 8 *A Hybrid Deep Learning Model for Intrusion Detection in Aerospace Vehicles*
Akshat Gaurav (Ronin Institute, USA); Brij B. Gupta (Asia University, Taiwan); Kwok Tai Chui (Hong Kong Metropolitan University, Hong Kong)
[1571025891]
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Comments



IEEE SPACE 2024: 2024 IEEE Space, Aerospace and Defence Conference (SPACE)

OS41 (*Technology Compendium & TWTs Related Technologies*)

Session time Tue, Jul 23 16:30-18:30

Location Heliconia 2

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>Technology Development for Validation and Update of Aerodynamic Database of Aircraft Using System Identification Techniques</i></p> <p>Dushyant Kaliyari (CSIR-National Aerospace Laboratories, India); Khadeeja Nusrath TK (CSIR-National Aerospace Laboratories, India); Jatinder Singh (CSIR-National Aerospace Laboratories, India); Vijay V Patel (Aeronautical Development Agency, India); Amitabh Saraf (Aeronautical Development Agency, India) [1571025409]</p>		
2	<p><i>A Planar Microstrip Line Based Compact Ultra Broadband Power Divider / Combiner</i></p> <p>Pankaj Sandip Bhavsar (Space Applications Centre, Indian Space Research Organization & Indian Institute of Technology, Bombay, India); Cvn Rao (Space Applications Centre (ISRO), India); Punam Tyagi (Space Applications Centre, India); Rajkumar Arora (Space Applications Centre, India) [1571028091]</p>		
3	<p><i>Technology Development of Helix-TWTs of Different Bands at CSIR-CEERI for Strategic Applications</i></p> <p>Amitavo Choudhury (CSIR-CEERI Pilani, India); Chirag Prakashchandra Mistry (CSIR-Central Electronics Engineering Research Institute, Pilani, Rajasthan, India); Subhradeep Chakraborty (CSIR-CEERI, Pilani, India); Sanjay Ghosh (Senior Principle Scientist, India) [1571030808]</p>		
4	<p><i>Design and Development of Ultra-Wideband Transceiver's Functional Blocks MMICs Using GaN Technology</i></p> <p>Ashish Jindal (DRDO & IIT Delhi, India) [1571031483]</p>		

- 5 *Design of the Radiation Cooled Packaging of the Helix TWT*
Chirag Prakashchandra Mistry (CSIR-Central Electronics Engineering Research Institute, Pilani, Rajasthan, India); Amitavo Choudhury (CSIR-CEERI Pilani, India); Subhradeep Chakraborty (CSIR-CEERI, Pilani, India); Sanjay Ghosh (Senior Principle Scientist, India)
[1571028387]
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- 6 *Surface Treatment of Heat Sink Fins Made of Aluminium Alloy Used for Thermal Management of Travelling Wave Tube Amplifiers*
Himanshu Shukla (Space Application Centre, SAC-ISRO, India); Sharad Shukla (Space Application Centre SAC ISRO, India); Vimal Shah (Space Application Centre SAC ISRO, India)
[1571026126]
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- 7 *MINEGUARDIAN: IoT Enabled Advanced Sensor Integration for Mine Safety Enhancement*
Meharunissa S P (Dayananda Sagar College of Engineering, India); Sathvik Lokesh (Dayananda Sagar College of Engineering, India); Aniruddh P Koundinya (P E S College of Engineering, Mandya, India); Aditi Kulkarni (Dayananda Sagar College of Engineering, India); Karan Karan C K (Dayananda Sagar College of Engineering, India)
[1571038208]
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- 8 *Side Lobe Reduction of Time Modulated Elliptical Antenna Array Using GA and PSO Algorithm*
Satish Kumar (National Institute of Technology Durgapur, India); Gopi Ram (National Institute of Technology, Warangal, India); Durbadal Mandal (National Institute of Technology, Durgapur, India); Rajib Kar (National Institute of Technology, Durgapur, India)
[1571031928]
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OS42 (*Technologies for CAN/CubeSat*)

Session time	Tue, Jul 23 16:30-18:30
Location	Tulip
Talk time per paper	15
Chaired by	Sudarshan Patil Kulkarni (JSS Science and Technology University, Mysuru, India)

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>CanSat Deployment: Electrothermal and Electromechanical Methods</i> K Raghav, Mr (Dayanand Sagar University, India); G N V Prasad (Dayananda Sagar University, India); Sripad Kulkarni (Dayananda Sagar University, India); Yashas V (Dayananda Sagar University, India) [1571026433]</p>		
2	<p><i>Design and Development of a Functional CANSAT Model for Atmospheric Data Collection</i> Maelona Maxim Vas (National Institute of Engineering, India); Shriranjani A (The National Institute of Engineering, India); Nishchith B C (The National Institute of Engineering, India); Rajalekshmi Kishore (The National Institute of Engineering, India); Salila Hegde (The National Institute of Engineering, India) [1571026452]</p>		
3	<p><i>Design and Implementation of a High-Performance Student-Built CanSat Antenna</i> Isha Talathi (MIT World Peace University, India) [1571032143]</p>		
4	<p><i>Level - 1 Digitally Twinned 1U Cubesat (DT1UC) - Concept to Reality</i> Prashantha Kumar (Dayananda Sagar University, India); Sripad Kulkarni (Dayananda Sagar University, India); Vatsal Amrania (Dayananda Sagar University, India); Krish Agrawal (DSU, India); Ashvani Chaudhary (Dayananda Sagar University, India); Jaiman Khandelwal (DSU, India) [1571030098]</p>		

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- 5 *Ground Level Studies: Triad Spectroscopy Interface for the Jnanam CubeSat*
Sudarshan Patil Kulkarni (JSS Science and Technology University, Mysuru, India); Jayakumar Venkatesan (Valles Marineris International Pvt Ltd, India); Gowthamarajan Kuppusamy (JSS Pharmaceutical College, Ooty, India); Anshad P A (JSS Science and Technology University, Mysuru, India); Dasangam Gnaneswar (JSS Science and Technology University, Mysuru, India); Jey Kumar Pachiyappan (JSS College of Pharmacy, India); Jeyaprakash M R (JSS College of Pharmacy, Ooty, India); Veera Venkata Satyanarayana Reddy Karri (JSS College of Pharmacy, Ooty, India); Parikshit Roychowdhury (JSS College of Pharmacy, Ooty, India)
[1571030642]
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- 6 *Advancements in Defense Surveillance: Integrating Deep Learning and Enhanced Materials in CubeSAT Systems*
Abhay Bhandarkar (Ramaiah Institute of Technology, India); Riddhi Rai (Ramaiah Institute of Technology, India); Sushma B (Ramaiah Institute of Technology & Visvesvaraya Technological University, India)
[1571031660]
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- 7 *KLSAT -A Mission Assisted for Study of Atmospheric Parameters at Stratosphere*
Kolachalam Sai Charan (KL UNIVERSITY INDIA, India); Puvvada Adithya (K L University, India); Velisala Prudhvi Gopal (K L University, India); Vanga Srivarun Reddy (K L University, India); Sarat Kotamraju (K L University, India); Sri Kavya K. Ch. (K L University, India)
[1571025661]
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OS43 (*Mission Planning/Control, Navigation & Guidance-III*)

Session time	Tue, Jul 23 16:30-18:30
Location	Hibiscus 2
Talk time per paper	15

Paper	Paper details	Was the paper presented?	Name of presenter
1	<i>Formation Control for Tracking Non-Cooperative Space Objects</i> Ishfaq Zahoor Bhat (Indian Institute of Science, Bengaluru, India); Debasish Ghose (IISc Bangalore, India) [1571030671]		
2	<i>Comparative Analysis of A-Star Search and RRT for Autonomous Free-Flying Bots</i> Prapti Bordoloi (Nirma University, India); Shashank Pachauri (Space Application Centre, ISRO, India); Himanshu K. Patel (Nirma University & International Society of Automation, India) [1571030812]		
3	<i>Lambert Problem Based Maneuver Time and Delta-V Estimation</i> Gurpreet Singh (URSC & IIIT Delhi, India); Sanat Biswas (IIIT Delhi, India) [1571030816]		
4	<i>Bioinspired Bald Eagle Search Based Guidance for Fuel-Optimal Spacecraft Docking</i> Arya Das (IIT Kanpur, India); Dipak Kumar Giri (IIT KANPUR, India) [1571030833]		
5	<i>Way-Points Based Trajectory Simulation Using Web Technology for Range Environment</i> Amit Sardar (Integrated Test Range, India) [1571032031]		
	<i>Inter-Satellite Link Network Scheduler for GNSS Constellation</i>		

6 Pawan Barnwal (Space Applications Center, ISRO, India); Vijay Singh Bhadouria (Space Applications Centre, ISRO, India); Dhaval Upadhyay (Space Application Centre, India); Subhash Bera (Space Applications Centre & ISRO, India)
[1571025882]

7 *On Cryptographic Approaches for Detecting GNSS Spoofing Attacks*
Jothi Ramalingam (National Institute of Technology Karnataka, Surathkal, India); Veeresh R Maned (National Institute of Technology Karnataka, Surathkal, India)
[1571030774]

8 *Development of Onboard Signal Processor for ISRO's GNSS-Remote Sensing Instrument*
Pratik Sharma (Space Applications Centre, ISRO, India); Saravana B Kumar (Indian Space Research Organisation, India); Pramod Mishra (Indian Space Research Organization India, India); Avadhesh Kumar (SAC-ISRO, India); Shalini Gangele (Space Applications Centre, ISRO, India)
[1571030487]

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OS44 (SPACE Antennas-II)

Session time	Tue, Jul 23 16:30-18:30
Location	Hibiscus 2
Talk time per paper	15

Paper	Paper details	Was the paper presented?	Name of presenter
1	<p><i>Generating Mode 2 OAM Beam Using a Circular Leaky-Wave Antenna on a Corrugated Half-Mode SIW With Beam-Scanning</i></p> <p>Aakash Bansal (Loughborough University, United Kingdom (Great Britain)); William Whittow (Loughborough University, United Kingdom (Great Britain)) [1571018820]</p>		
2	<p><i>Holographic Metasurface Design for Flexible Beamforming Antennas</i></p> <p>Praveen Kumar Sharma (Seoul National University of Science and Technology, Korea (South)); Aakash Bansal (Loughborough University, United Kingdom (Great Britain)); Jae-Young Chung (Seoul National University of Science and Technology, Korea (South)) [1571025619]</p>		
3	<p><i>Ka-Band Hemispherical Dielectric Lens and Horn Assembly for Discrete Beamforming</i></p> <p>Shahla K P (Scientist, India); Shahul Hameed V (Scientist, India); Vismitha Pramod (Engineer Contract, India); Chinni Prabhunath G (None, India) [1571030507]</p>		
	<p><i>A High Frequency Millimeter Wave Circular Patch Antenna for Radar Applications and Satellite Communications</i></p> <p>Manish Varun Yadav (Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, Karnataka, India); Abhi Chaurasia (Manipal Institute of Technology, Manipal Academy of Higher Education,</p>		

- 4 Manipal, India); Salla Sai Charith (Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, India); Sudheendra Prabhu K (Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, India); Tanweer Ali (Manipal Institute of Technology, Manipal Academy of Higher Education, India); Swati Varun Yadav (Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, India)
[1571018725]
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PD7 (*Collaboration and Funding Opportunities for Academia in SPACE Ecosystems*)

Session time Tue, Jul 23 16:30-17:30

Location Convention Centre

Comments

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PD8 (*IEEE's Role in AtmNirbhar & Viksit Bharat*)

Session time Tue, Jul 23 17:30-18:30

Location Convention Centre

Comments



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Awards Function & Valedictory

Session time Tue, Jul 23 18:30-19:30

Comments

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Gala Dinner

Session time Tue, Jul 23 19:30-21:00

Comments