

Program Schedule

Day 1

5th August, 2021 (Thursday)

09:00-10:10	<i>Inauguration</i> Dr. G. Satheesh Reddy , Chairman, DRDO			
10:15-10:45	<i>Keynote Address by Dr. Avinash Chander</i> , Former SA to RM			
10:45-11:15	<i>Sponsors Session</i>			
11:15-11:30	<i>BREAK</i>			
11:30-13:30	<p>Parallel Session 1A <i>Track: Antennas, RF & Microwave & Radar</i> Session: Antenna Design 1 Chair: Dr. Debdeep Sarkar, IISc, Bangalore 08 Papers</p>	<p>Parallel Session 1B <i>Track: IR Tracking & Image Processing</i> Session: Pattern Recognition and Machine Learning Chair: Dr. D P Dogra, IIT, Bhubaneswar 08 Papers</p>	<p>Parallel Session 1C <i>Track: Telemetry, Communication & Flight Termination System</i> Session: Communication 1 Chair: Dr. Aneek Adhya, IIT, Kharagpur 07 Papers</p>	<p>Parallel Session 1D <i>Track: Data Analytics, Decision Theory</i> Session: Estimation and Machine Learning in Test Range Applications Chair: Dr. A. K. Sarkar, ACS College of Engineering 08 Papers</p>
13:30-14:30	<i>LUNCH BREAK</i>			
14:30-15:30	<p><i>Invited Speech 1</i> Prof. Rowdra Ghatak, NIT Durgapur "Resonators : A Key Ingredient in Microwave Circuit Design"</p>	<p><i>Invited Speech 2</i> Prof. P.K. Biswas, IIT Kharagpur "Generative Adversarial Network (GAN):An Efficient Tool for Data Generation and Data Completion"</p>	<p><i>Invited Speech 3</i> Mr. Aleksandar Grgic, Weibel, Denmark "Large Radar Program for SSA & SST"</p>	<p><i>Invited Speech 4</i> Mr. Viswam Gampala, LRDE, Bangalore "Trends in New Radar Technologies and Range Applications"</p>
15:30-15:45	<i>Sponsors Session</i>			
15:45-16:00	<i>BREAK</i>			
16:00-18:00	<p>Parallel Session 2A <i>Track: Antennas, RF & Microwave & Radar</i> Session: Radar Systems Chair: Dr. Debalina Ghosh, IIT, Bhubaneswar 08 Papers</p>	<p>Parallel Session 2B <i>Track: IR Tracking & Image Processing</i> Session: IR Tracking 1 Chair: Dr. Jharna Majumdar, CUTM Bhubaneswar 07 Papers</p>	<p>Parallel Session 2C <i>Track: Telemetry, Communication & Flight Termination System</i> Session: Communication 2 Chair: Dr. Debjani Mitra, IIT (ISM), Dhanbad 07 Papers</p>	<p>Parallel Session 2D <i>Track: Data Analytics, Decision Theory</i> Session: Kalman Filtering and Estimation Chair: Dr. Smita Sadhu, Jadavpur University 07 Papers</p>

Day 2

6th August, 2021 (Friday)

09:00-10:00	<i>Invited Speech 5</i> Prof. V M Gadre, IIT Bombay "Micro-Doppler Effect in Radar"	<i>Invited Speech 6</i> Dr. Arun Subramanian, GE Global Research "Uncertainty quantification in Machine Learning"	<i>Invited Speech 7</i> Prof. Jharna Majumadar, CUTM, Bhumaneswar "Video Processing"	<i>Invited Speech 8</i> Prof. S Lakshmivrahan, The University of Oklahoma "Mathematics of Big Data Analysis"
10:00-10:15	<i>Sponsors Session</i>			
10:15-10:30	<i>BREAK</i>			
10:30-12:30	Parallel Session 3A <i>Track: Antennas, RF & Microwave & Radar</i> Session: Antenna Design 2 Chair: Dr. Sayan Chatterjee, Jadavpur University 08 Papers	Parallel Session 3B <i>Track: IR Tracking & Image Processing</i> Session: IR Tracking 2 Chair: Dr. Subhadip Basu, Jadavpur University 08 Papers	Parallel Session 3C <i>Track: Telemetry, Communication & Flight Termination System</i> Session: Telemetry & FTS 1 Chair: Mr. S P Dash, DRDO (Retd.) 08 Papers	Parallel Session 3D <i>Track: Data Analytics, Decision Theory</i> Session: Safety, Reliability and Advanced Technologies Chair: Dr. Praveen Choppala, Andhra University 07 Papers
12:30-13:30	<i>LUNCH BREAK</i>			
13:30-15:30	Parallel Session 4A <i>Track: Antennas, RF & Microwave & Radar</i> Session: Microwave Devices and Circuits Chair: Dr. M. Chakravarthy, DLRL 08 Papers	Parallel Session 4B <i>Track: IR Tracking & Image Processing</i> Session: Image Processing and Computer Vision Chair: Dr. N. B. Puan, IIT, Bhubaneswar 08 Papers	Parallel Session 4C <i>Track: Telemetry, Communication & Flight Termination System</i> Session: Telemetry & FTS 2 Chair: Mr. K S Varaprasad, DRDO HQ 07 Papers	Parallel Session 4D <i>Track: Data Analytics, Decision Theory</i> Session: Position, Navigation and Timing Chair: Dr. Ganapati Panda, IIT, Bhubaneswar (Retd.) 08 Papers
15:30-15:45	<i>Sponsors Session</i>			
15:45-16:00	<i>BREAK</i>			
16:00-16:30	<i>Panel Discussion : "Synergy of Range Technology through Networking and Collaboration" by Eminent Panellists</i>			
16:30-18:00	Valedictory Function			

* Detailed Technical Program is given in next pages

Technical Program of ICORT 2021

Day 1: 5th August 2021

Session ID: 1A

Time: 11:30-13:30 hrs.

Track: Antennas, RF & Microwave & Radar			
Session: Antenna Design 1			
Session Chair: Dr. Debdeep Sarkar, IISc, Bangalore			
Sl. No.	Paper ID	Paper Title	Authors
1.	1570722428	Design of Wide Band Dielectric Resonator Antenna for X-Band and Lower Ku-Band Applications	Subham Banerjee , Arun Kumar Ray; Raghvendra Kumar Chaudhary; Md Sujauddin Ahmmed;
2.	1570722797	Multilayer C-Sandwich Radome Design for Broad-Band and Multi-Band Airborne Application	Anil Chepala; RamaKoteswara Ghali; Joita Mukherjee
3.	1570726758	A Low Profile Four Element Dual-Band Monopole Antenna for Pattern Diversity MIMO Applications	Deven Patanvariya; Anirban Chatterjee
4.	1570726797	A Compact U-Shaped Antenna with Bandwidth Enhancement for Ultra-Wideband Communication	Suvro Kundu; Surajit Kundu
5.	1570726853	Isolation Enhancement in a Microstrip Fed Compact Ultra-Wideband Diversity Antenna by Exploring Koch Boundary Fractal and Extended Ground Stub	Jeet Banerjee; Abhik Gorai; Rowdra Ghatak
6.	1570726867	Wearable Microstrip Patch Antenna for Disease Detection and WiMAX Application	Prabhat Kumar Patnaik; Murali Malijeddi; Dhruva Panda
7.	1570726964	Scalable & Modular Circular Polarized Antenna Array for Digital Beamforming Applications	Rajesh Chivukula; Tanuja Vijaykumar
8.	1570727012	Gain Enhancement of Dual-Band Microstrip - Fed Antenna with Complementary Split Ring Resonators and Rectangular Slots Embedded in Patch for Wireless Applications Using Metamaterial Cell- Based Superstrate	Ajay Kumar Choudhary; Sujit Barman; Tamasi Moyra; Anjan Debnath; Anirban Bhattacharjee
TOTAL PAPER : 08			

Day 1: 5th August 2021

Session ID: IB

Time: 11:30-13:30 hrs.

Track: IR Tracking & Image Processing			
Session: Pattern Recognition and Machine Learning			
Session Chair: Dr. Debi Prosad Dogra, IIT Bhubaneswar			
Sl. No.	Paper ID	Paper Title	Authors
1.	1570719848	Spectral & Spatial Feature Detection on Hyperspectral Images Using Deep Neural Networks	Anasua Banerjee; Minakhi Rout; Mainak Bandyopadhyay
2.	1570719849	Dimensionality Reduction and Evaluation in Hyperspectral Images Using LSTM Models	Satyajit Swain; Mainak Bandyopadhyay; Suresh Chandra Satapathy
3.	1570721996	Comparison of Deep Learning Classification Based Methods with Hyper Parameter Tuning on Hyperspectral Imagery	Indira Bidari; Satyadhyan Chickerur
4.	1570723302	Image Resolution Enhancement Using Convolutional Autoencoders with Skip Connections	Hemant Bhojwani; Vishwam Bhavsar; Ruchi Gajjar; Manish Patel
5.	1570723396	A Novel Approach for Change Detection Analysis of Land Cover from Multispectral FCC Optical Image Using Machine Learning	Khyat K Patel; Manan Jain; Ruchi Gajjar; Manish Patel
6.	1570727195	SAR Image Classification Using Transfer Learning	Praneetha Rajupalepu; TM Dhipu; R Rajesh
7.	1570727201	CNN Based Image Resizing Detection and Resize Factor Classification for Forensic Applications	Bibhash Das; Mrutyunjay Biswal; Abhranta Panigrahi; Manish Okade
8.	1570727224	3D Separable Convolution Based Super-Resolution of Hyperspectral Images Using CNN	Krishna Prasad Gollavilli; Shashikant Deepak; Dipti Patra
TOTAL PAPER : 08			

Day 1: 5th August 2021

Session ID: IC

Time: 11:30-13:30 hrs.

Track: Telemetry, Communication & Flight Termination System			
Session: Communication 1			
Session Chair: Dr. Aneek Adhya, IIT Kharagpur			
Sl. No.	Paper ID	Paper Title	Authors
1.	1570720970	An Efficient Microstrip Planar Array for Evaluating Channel Capacity of Massive MIMO Systems	Surendra Loya; Habibulla Khan
2.	1570722022	Broadband Branch-Line Coupler Using Open Ended Stubs for L-Band Microwave Applications	Vivek Ratnaparkhi; Sampada Khairkar; Dhanshree Bhure; Hemadri Sharma
3.	1570723382	Substitution Permutation Network Based Lightweight Ciphers with Improved Substitution Layers for Secure IoT Applications	Ruby Mishra; Sayantani Dutta; Manish Okade; Kamala Kanta Mahapatra
4.	1570724156	Prevention of SQL Injection Attacks Using Query Hashing Technique	Yash Swarup; Anuj Kumar; Abhishek Tyagi; Vimal Kumar
5.	1570727221	Experimental Demonstration of 35 GHz RF-Over-Fiber Silicon-Photonics Link	Vijay Kumar; Shankar Selvaraja; G. Sai Saravanan; Sangam Bhalke
6.	1570727398	Survey on Ground to Air Communication:- Technical and Logistics Challenges, Recent Advancement and the Future	Komal Gaikwad; Rajesh Kumar; C Jayprakash
7.	1570727750	7-Bit Chipless Tag for Ultra Wideband Applications	Pudi Hinduja; Durga Prasad Mishra; Santanu Kumar Behera
TOTAL PAPER : 07			

Day 1: 5th August 2021

Session ID: 1D

Time: 11:30-13:30 hrs.

Track: Data Analytics, Decision Theory & Control Systems			
Session: Estimation and Machine Learning in Test Range Applications			
Session Chair: Dr. A. K. Sarkar, ACS College of Engineering			
Sl. No.	Paper ID	Paper Title	Authors
1.	1570721974	Recent Trends in Aerodynamic Parameter Estimation: A Review of Different Methods Along with Their Advantages and Disadvantages	Bhaskar Koley; Anitha Alexandra
2.	1570722462	Performance Comparison of EKF and UKF for Estimation of COE Using Kozai Mechanism	Jay Shankar Nanda; Shrabani Ghosh
3.	1570724923	Real Time Multi Sensor Multi Target Data Association over Sensor Network	Sandipan Sarkar; Surabhi Sethi; Hare Krishna Ratha; Piyush Abhishek
4.	1570726554	RCS Based Target Classification Using Deep Learning Methods	Jyoti Mansukhani; D Penchalaiah; Abhijit Bhattacharya
5.	1570727058	Machine Learning Based Classification of Radar Signatures of Drones	Saurabh Roychowdhury; Debalina Ghosh
6.	1570729337	Stacked Ensemble Learning Based Approach for Anomaly Detection in IoT Environment	Neel Jaydip Gandhi
7.	1570715759	Forecasting Upper Air Wind Speed Using a Hybrid SVR-LSTM Model	Himadri Shekhar Das, Himanish Shekhar Das, Sukanta Bhattacharjee
8.	1570722143	Guidance Signal Extraction in an ESA Based RF Seeker by Disturbance Observer	Ankita Muhury; Smita Sadhu; Tapan Ghoshal
TOTAL PAPER : 08			

Day 1: 5th August 2021

Session ID: 2A

Time: 16:00-18:00 hrs.

Track: Antennas, RF & Microwave & Radar			
Session: Radar Systems			
Session Chair: Dr. Debalina Ghosh, IIT, Bhubaneswar			
Sl. No.	Paper ID	Paper Title	Authors
1.	1570722791	Design and Development of Indigenous 4-D C-Band Transportable Tracking Radar	Alhad Kulkarni; Ranadeep Saha; Vipin W. Paradkar; Vijay Bhaskar Nandigam; Kumaran Sreekumar
2.	1570729419	Beam Squint Mitigation Using Digital Beam Formers for Wideband Radar Applications	Meena Dasan
3.	1570728748	A Novel Technique for Dimensional Space Reduction in Passive RFID Transponders	Durga Prasad Mishra; Santanu Kumar Behera
4.	1570722801	A Novel Scheme of Doppler Measurement for Magnetron Based C-Band Tracking Radar	Alhad Kulkarni; Abhishek Pal; Pratik Shukla; Kumaran Sreekumar
5.	1570726149	A Review of Different Sparse Arrays for DOA Estimation Using Subspace Based Algorithm	Rajen Patra; Anindya S. Dhar
6.	1570726194	A Novel Approach to Evaluate Sea Clutter and Detection of a Supersonic Sea Skimming Target by FMCW Radar Ranging in High Velocity Platform	Pranab Kumar Saha; Bhupesh Sahu; Jai Hind
7.	1570728946	Polyphase Good Code Sets Based on Symmetrical and Anti-Symmetrical Segments of Linear/Piecewise Linear FM Waveforms	Ravi Kadlimatti; Shivank Jha; Akash Bhandari
8.	1570728958	Signal Processing Application for Artillery Measurements Using Fixed Head Doppler Radar	Aveek Dutta; Shruti Pandey; Sankarsan Padhy
TOTAL PAPER : 08			

Day 1: 5th August 2021

Session ID: 2B

Time: 16:00-18:00 hrs.

Track: IR Tracking & Image Processing			
Session: IR Tracking 1			
Session Chair: Dr. Jharna Majumdar, CUTM Bhubaneswar			
Sl. No.	Paper ID	Paper Title	Authors
1.	1570720154	Passive Ranging for Infrared Search and Track System Mounted on an Aircraft	Sanketh Ailneni; Sudesh Kashyap; Vps Naidu; Amit Agarwal; Ajay Kumar
2.	1570724453	Missing Trajectory Estimation Using Single Station EOT System Data	Manvendra Singh Chauhan; Deepshikha Swain; Dipak Das; Pradeep Swain; Soni Kumari
3.	1570726669	Detection of Point Targets amid Cluttered Background in IR Imagery forIRST and MAWS Applications	Nikhil Kumar; Sandeep Kumar; Zahir Ahmed Ansari; Neeta Kandpal; U Gopinathan; Ajay Kumar
4.	1570727188	Optical Design for Tracking a Long Range Point Target	Kamalesh Nehra; Kurisetty Ravi; Meesala Mohan; Pachava Vengal Rao
5.	1570728733	Multi-Target Tracking Using Ramanujan Sum Based DWT	Mayukhmala Jana; Pradipta Roy
6.	1570728921	Horizontality Calibration of Electro Optical Tracking Pedestal Using DFT	Sobha Chandra Barik; Satyabrata Sahu; Khageswar Sahoo
7.	1570728977	Tracking of Object with Occlusion Based on Normalized Cross Correlation and Kalman Filter Estimation	Satyabrata Sahu; Ghanashyam Adhikari; Ranjan Dey
TOTAL PAPER : 07			

Day 1: 5th August 2021

Session ID: 2C

Time: 16:00-18:00 hrs.

Track: Telemetry, Communication & Flight Termination System			
Session: Communication 2			
Session Chair: Dr. Debjani Mitra, IIT (ISM), Dhanbad			
Sl. No.	Paper ID	Paper Title	Authors
1.	1570729042	Frequency Shift Coded Chipless RFID Tag Design Using Square Split Ring Resonators	Drishyada Mekala Sai; Durga Prasad Mishra; Santanu Kumar Behera
2.	1570729129	Blockchain Use Case in Multi-Sensor SatelliteArchitecture	Rathin Chandra Shit; Mrinal Goswami
3.	1570729278	Characterising the Performance of AODV for Various Mobility Scenarios	Surabhi Patel
4.	1570729332	Preventing DDoS Attacks in Software Defined Networks	Ganna Chennakesavulu
5.	1570729346	Performance Analysis of FSO for Different Modulation Techniques Under Atmospheric Turbulence with Pointing Errors	Kappala Vinod Kiran; Jayashree Pradhan; Manish Sahu; A. Turuk; Santos Ku Das
6.	1570729404	Implementation of Combinational Logic for Polar Decoder	Swapnil P. Badar; Kamalesh Khanchandani
7.	1570728992	Blockchain Based Secure Cloud Storage System for Range Activity Data	Suman Mondal
TOTAL PAPER : 07			

Day 1: 5th August 2021

Session ID: 2D

Time: 16:00-18:00 hrs.

Track: Data Analytics, Decision Theory & Control Systems			
Session: Kalman Filtering and Estimation			
Session Chair: Dr. Smita Sadhu, Jadavpur University			
Sl. No.	Paper ID	Paper Title	Authors
1.	1570726810	Approximate Kalman Filtering for Bayesian State Estimation in Nonlinear Measurement Models	Vijaya Nirmala Gera; Praveen Choppala; P. Rajesh Kumar; Paul D Teal
2.	1570729336	Performance Analysis of TDOA and FDOA for Missile Tracking Application Using Extended Kalman Filter	Sumit Kumar; P Kannadasan; Avijit Jena
3.	1570726981	A Derivation for the Kalman Filter in a Purely Bayesian Filtering Perspective	Ramakrishna Gurajala; Praveen Choppala; Paul D Teal
4.	1570724344	A Bayesian Belief Network Model for Early Prediction of Reliability for Computer Based Safety Critical System	Pramod Kumar; Lalit Singh; Chiranjeev Kumar; Sushma Verma; Sanjay Kumar
5.	1570729183	A Sorted Weighting Lookahead Sampling Scheme for Accurate and Fast Particle Filtering	Ramakrishna Gurajala; Praveen Choppala; James Stephen; Paul D Teal
6.	1570725951	Observation and Analysis of a Typical Thunderstorm Event Using Doppler Weather Radar Products	Bibekananda Panda
7.	1570721541	How Tri-Axial Sensors Influenced the Location-Based Heterogeneous Activities Recognition Rates: An Exploratory Analysis	Prabhat Kumar; S Suresh
TOTAL PAPER : 07			

Day 2: 6th August 2021

Session ID: 3A

Time: 10:30-12:30 hrs.

Track: Antennas, RF & Microwave & Radar

Session: Antenna Design 2

Session Chair: Dr. Sayan Chatterjee, Jadavpur University

Sl. No.	Paper ID	Paper Title	Authors
1.	1570727084	Metamaterial Inspired Filtering Antenna for Dual Band Applications	Chiranjib Goswami; Riya Chakraborty; Rowdra Ghatak
2.	1570727101	Metasurface-Based Wideband Multilayer Antenna Incorporated with Holey Superstrate for S-Band Applications	Mohammad Ameen; Raghvendra Kumar Chaudhary
3.	1570728709	Broadband Symmetrically Direct Coupled Circular Microstrip Antenna	Bindu K. K.; Rajbala Solanki; Girish Kumar; Anil Kumar Singh
4.	1570726568	Single Feed Dual-Band Circularly Polarized Modified Shape Square Dielectric Resonator Antenna for WiMAX and WLAN Applications	P Soni Reddy; Rahul Mondal; Sushanta Sarkar; Debasree Sarkar; Partha Sarkar
5.	1570727042	Luneberg Lens as Passive Radar Augmenter for Aerial Target	Diptiman Biswas; Asif Rizwan; Nithin Raj Vn; Narendar Kumar
6.	1570729397	Effect of Airfoil Profiles on Radar Cross Section of a Cropped Delta Wing	Dubba Sai Charan Nath
7.	1570729181	Integrated X-Band Active Phased Array Radar for Maritime Surveillance	Ramkumar Raghu; Nanditha Unnikrishnan; Bhogaraju Sree Kalyani; R Rajesh; Reena Sharma
8.	1570726813	Design of Compact Monopole Antenna with Tunable Characteristics Using Active FSS	Rahul Mondal; P Soni Reddy; Nilesh Mukherjee; Sushanta Sarkar; Debasree Sarkar; Partha Sarkar
TOTAL PAPER : 08			

Track: IR Tracking & Image Processing			
Session: IR Tracking 2			
Session Chair: Dr. Subhadip Basu, Jadavpur University			
Sl. No.	Paper ID	Paper Title	Authors
1.	1570722493	A Novel Method on Summarization of Video Using Local Ternary Pattern and Local Phase Quantization	Jharna Majumdar; Sasmita Kumari Nayak
2.	1570723234	A Review of the Polarimetric Interferometric Synthetic Aperture Radar (Pol-InSAR)	Sayanti Dutta; Raisa Chatterjee; Tamesh Halder; Rintu Gayen; Arundhati Misra Ray; Debashish Chakravarty
3.	1570727183	A Novel Approach for Urban Unsupervised Segmentation Classification in SAR Polarimetry	Soumyadip Sarkar; Tamesh Halder; Vivek Poddar; Rintu Gayen; Arundhati Misra Ray; Debashish Chakravarty
4.	1570729013	Photodetector Based Auto Trigger System Using Kalman Filter	Sailendra Kumar Pradhan; Satyabrata Sahu; Pravat Kumar Das
5.	1570729158	Airborne Compact Electro Optic Infrared (EO/IR) System for Maritime Surveillance Mission	Jayamohan C B; R Rajesh; Reena Sharma; Boppena Nagaraju
6.	1570729205	EOTS: The Journey and Beyond	Manvendra Singh Chauhan; Pradeep Swain; Ranjan Dey; Dipak Das; Anadi Panda
7.	1570729240	Scene Simulation and Modeling of InfraRed Search and Track Sensor for Air-Borne Long Range Point Targets	O. P. Naraniya; Sandeep Kumar; Ajay Kumar
8.	1570731893	Inertial Measurement Unit for Trajectory	Jean-Pascal Martinenq
TOTAL PAPER : 08			

Day 2: 6th August 2021

Session ID: 3C

Time: 10:30-12:30 hrs.

Track: Telemetry, Communication & Flight Termination System

Session: Telemetry & FTS 1

Session Chair: Shri S P Dash, DRDO

Sl. No.	Paper ID	Paper Title	Authors
1.	1570724547	Automatic Change over Unit for Flight Termination System	Mohapatra Kumar Gourab
2.	1570729226	Remote Operation of Flight Termination System over Fiber Optic Media in Test Range Scenario	Mohapatra Kumar Gourab
3.	1570729371	Supplemented Thrust Reversal Contraption for Enhanced Flight Termination System	Bibhorr Bibhorr; Chirag R Anand
4.	1570722050	Analysis of Aerospace Vehicle PCM Telemetry Link in Various Indoor Environments	Ramu Chindam; Arvind Kumar Kushwaha; Praveen Tandon
5.	1570722897	Statistical Analysis of Orbit Determination Techniques on MOTR Data	Ravindra Challa; Rajkumar S; Vaidhyanathan A; SubbaRao Bv
6.	1570722119	Versatile Radio-Frequency Flight Test Recorder	Philippe Klaeyle; Florian Sandoz
7.	1570727080	Considerations for Design of High Speed High Resolution Low Power SAR ADC for Direct RF Sampling Receivers	Amitesh Kumar Tripathi
8.	1570722163	Improvement on Flight Test Telemetry Reception Using a Best Source Selector	Philippe Klaeyle; Florian Sandoz
TOTAL PAPER : 08			

Day 2: 6th August 2021

Session ID: 3D

Time: 10:30-12:30 hrs.

Track: Data Analytics, Decision Theory & Control Systems

Session: Safety, Reliability and advanced technologies

Session Chair: Dr. Praveen Choppala, Andhra University

Sl. No.	Paper ID	Paper Title	Authors
1.	1570717801	Sensitivity Analysis of MEMS Gyroscope for Radar-Based True North Finding Application	Sudarsana Jena; Ankur Gupta
2.	1570724802	Compact Test Range with Improved Reliability - A Case Study	Gautam Sadhukhan; Prasanta Mohanty
3.	1570726342	Optimization of Augmented Coprime Array for a Specific Number of Sensors	Rajen Patra; Anindya S. Dhar
4.	1570727153	Millimeter Wave FMCW Radar for Contactless Diagnosis of Cardiovascular Diseases	Paramananda Jena; Kedarnath Sahu
5.	1570727177	Recycling of Waste Propellant and the Challenges in Disposal: Range Safety	PK Mehta; Kumaraswamy A; Praveenkumar Balu
6.	1570728985	Improved Prediction of Diabetes Mellitus Using Machine Learning Based Approach	Smita Parija; Madhumita Pal; Ganapati Panda
7.	1570729024	iLid: IoT-Assisted Low-Cost and Scalable Inventory-Management System	Chandra Shekhar; Rishikesh Vepura; Sudipta Saha
TOTAL PAPER : 07			

Day 2: 6th August 2021

Session ID: 4A

Time: 13:30-15:30 hrs.

Track: Antennas, RF & Microwave & Radar
Session: Microwave Devices and Circuits
Session Chair: Dr. M. Chakravarthy, DLRL

Sl. No.	Paper ID	Paper Title	Authors
1.	1570720137	Analysis of Hexagonal Waveguide Using Conformal Mapping Technique for Dominant TE Mode	Jayanta Bhattacharya; Sudipta Maity
2.	1570721807	Design of Octagonal FSS Based Radome Wall for Broadband Airborne Application	Chandresh Dhote; Rashmi A. Pandhare; Fateh Lohar
3.	1570722559	Independently Switchable Dualband High Selective Bandpass Filter	Anjan Bandyopadhyay; Pankaj Sarkar; Rowdra Ghatak
4.	1570723387	Design and Development Aspects of Klystrons	Ayan Kumar Bandyopadhyay; Debasish Pal; Rakesh Meena; Vikram Rawat; Bijendra Kumar; Atmakuru Nagaraju; Deepender Kant
5.	1570725630	Design of MMIC Variable Voltage-Controlled Attenuator Used in T/R Module of Phased Array Radar	Arun Kumar Ray; Md Sujauddin Ahmmed; Subham Banerjee; Raghvendra Kumar Chaudhary
6.	1570727104	Design and Realization of Compact C-Band Monopulse Feed Using Additive Manufacturing	Vipin W. Paradkar; Ranadeep Saha; Kumaran Sreekumar
7.	1570729272	Microstrip Hybrid Corporate-Series Feed Network for Low Sidelobe Monopulse Antenna Arrays	Dovari Nagaraju; Bivin Mathew; Yogesh Verma
8.	1570729411	Magnetron Development Activities and Effort Leading to the Product Development for Users	Shivendra Maurya

TOTAL PAPER : 08

Day 2: 6th August 2021

Session ID: 4B

Time: 13:30-15:30 hrs.

Track: IR Tracking & Image Processing			
Session: Image Processing and Computer Vision			
Session Chair: Dr. N. B. Puhan, IIT Bhubaneswar			
Sl. No.	Paper ID	Paper Title	Authors
1.	1570721026	Textual Information Annotation over Mission Video in Test Range Scenario	Umang Soni; Soumitra Ray; Balaram Das
2.	1570721887	Change Detection and Classification Using Hyperspectral Imagery	Indira Bidari; Satyadhyan Chickerur
3.	1570722968	Hardware Realization of Video Enhancement and Compression Algorithms	Harish Reddy Kolanu; Priyadarshini Nagrale; Manish Okade; Kamalakanta Mahapatra
4.	1570724788	A Novel Fast Template Matching Algorithm Based on Bounded Approach Using Block Partitioning Method	Sanjay Sahani; Manvendra Chauhan
5.	1570726999	Identification of Similar Gastrointestinal Images Through Content Based Image Retrieval System Based on Analytical Hierarchical Process	Narendra Kumar Rout; Mitul Ahirwal; Mithilesh Atulkar
6.	1570729143	Bias Removal Blending to Create Panorama	Sasmita Mahakud; Pradipta Roy
7.	1570729301	A Human Intruder Detection System for Restricted Sensitive Areas	Navin Chandra; Soumya Priyadarshini Panda
8.	1570720667	Manmade Structure Segmentation Based on Morphological Operation from High Resolution PAN Image	Manish Pratap Singh; Gayathri Nvenkatesan; Debasis Chaudhuri
TOTAL PAPER : 08			

Day 2: 6th August 2021

Session ID: 4C

Time: 13:30-15:30 hrs.

Track: Telemetry, Communication & Flight Termination System			
Session: Telemetry & FTS 2			
Session Chair: Shri K S Varaprasad, DRDO			
Sl. No.	Paper ID	Paper Title	Authors
1.	1570722193	A Ground S Band Hybrid Active Electronically Scanned Array: Concept, Design and Performance	Gerard Kipfer; Philippe Klaeyle
2.	1570723148	UAV RF Fingerprinting with Power Spectra Estimates	Hilal Elyousseph; Majid L Altamimi
3.	1570726381	Compact S-Band Ship Borne Reconfigurable Receiving Antenna for Down-Range Telemetry Application	Gautam Sadhukhan; Satyajit Chakraborty; Pankaj Gupta
4.	1570729246	Design of Ka-Band down Converter for Telemetry	Pravin Swami; Sumit Kumar; Kailash Chandra Dash; Sayad Mursid Alli; Shivaraj Havanur
5.	1570719387	Potentials and Advantages of NavIC in Indian Missile Programs	Mrinal Goswami; Somnath Mahato; Surajit Kundu; Rowdra Ghatak; Anindya Bose
6.	1570726445	Acoustic Signal Processing for Rate of Fire and Blast Measurement for Performance Evaluation of Armaments	Aveek Dutta; Shruti Pandey; Provat Mondal; Sankarsan Padhy
7.	1570729310	Star-Shaped Fractal Antenna with Triangular Slots Designed for Wideband Application	Sarita Rani; Madhusmita Mohanty; Gautam Sadhukhan
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Day 2: 6th August 2021

Session ID: 4D

Time: 13:30-15:30 hrs.

Track: Data Analytics, Decision Theory & Control Systems

Session: Position, Navigation and Timing

Session Chair: Dr. Ganapati Panda, IIT Bhubaneswar (Retd.)

Sl. No.	Paper ID	Paper Title	Authors
1.	1570711867	Case Study: NavIC Performance Observation on Low Latitude Region	Darshna Jagiwala; Shweta Shah; Mehul Desai
2.	1570719194	GPS-GLONASS Combined Position Performance Accuracy for Indian Defence Application	Somnath Mahato; Mrinal Goswami; Surajit Kundu; Anindya Bose
3.	1570722537	Implementation of a Count down Timer on RTOS Platform for Test Range Applications	Chandradeo Rajak; Biswajit Biswas; A K Shrivastava; Soumitra Ray
4.	1570723377	Ground-Based Passive Radar and On-Board Beacon for Airborne Target Tracking with GPS Based Time Synchronization	Udaya Kumar Sahoo; Shyam Sundar Kundu; Bijayananda Patnaik; Srinivasarao Chintagunta
5.	1570724281	Implementation of Software Based Mission Director and Range Director Console for HOLD Interface to Program-Clock	Umang Soni; Biswajit Biswas; A K Shrivastava
6.	1570724916	Development of Remotely Configurable Range Timing Display System	Umang Soni; Chandradeo Rajak; Biswajit Biswas; A K Shrivastava
7.	1570728139	Real-Time Web Based Timing Display Application for Test Range Applications	Chandradeo Rajak; Umang Soni; Biswajit Biswas; A K Shrivastava
8.	1570728778	Ionospheric Effect on Position Solution Accuracy Using NavIC	Debipriya Dutta; Somnath Mahato; Sukabya Dan; Atanu Santra; Parmeswar Banerjee; Anindya Bose
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