

2026 National Conference on Communications (NCC 2026)

Hyderabad, India

26 February - 1 March 2026

IEEE Catalog Number:
ISBN:

CFP2642J-POD
979-8-3315-4716-5



Copyright © 2026, IEEE

All Rights Reserved

Copyright and Reprint Permissions:

Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

*** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.

IEEE Catalog Number:	CFP2642J-POD
ISBN (Print-On-Demand):	979-8-3315-4716-5
ISBN (Online):	979-8-3315-4715-8
ISSN:	2993-2610

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA

Phone:	(845) 758-0400
Fax:	(845) 758-2633
E-mail:	curran@proceedings.com
Web:	www.proceedings.com

TABLE OF CONTENTS

Multi-Path Bayesian Inference for Symbol Detection in Affine Frequency Division Multiplexing	1
<i>A Anoop, Christo Kurisummoottil Thomas, J V Bibal Benifa, S Kala</i>	
FADIoT: Federated Anomaly Detection Framework for DDoS Attacks in IoT	7
<i>Tushar Rana, Sai Akshita Dimpu Pagoti, Neha Agrawal, Amulya Namburi</i>	
Balancing Privacy and Robustness in Coded Computing Under Profiled Workers	13
<i>Rimpi Borah, J. Harshan, Aaditya Sharma</i>	
HMSF-BUS Net: A Hierarchical Multiscale Fusion Framework for Breast Ultrasound Image Segmentation	19
<i>Gunji Lakshmi Jahnavi, Panigrahi Srikanth, Banothu Sreeja Devi, Kaushal Sambanna</i>	
Performance Analysis of IRS-Assisted Hybrid VLC/THz Communication System	25
<i>Prashant Sharma, Kishan Tripathi, Swaminathan R.</i>	
Modality-Specific α -Fusion for EEG-Based Attention Decoding	31
<i>Shrijeet Kumar, Himasagar Ullamgunta, Lokendra Chouhan, Annushree Bablani</i>	
On Average Age of Incorrect Information in Multihop Wireless Networks with Interference for Periodic Sampling and Scheduling Policies	37
<i>Nibin Raj, Vineeth B. S.</i>	
RespDSACM: A Dual-Scale AudioConvMixer for Respiratory Sound Classification	43
<i>Kumar Kaustubh, Aastha Bidhen Kachhi, Ashish Issac, Ajay Kumar Sharma</i>	
Enhanced Rank Adaptation for MIMO Systems: Design and Experimental Validation	49
<i>Muralimohan P., Pavan Reddy Manne, Sibgath Ali Khan, Kiran Kuchi</i>	
ISI-Aware Selective Variable-Length Coding for Diffusion-Based Molecular Communication Channel with Refresh	55
<i>Tamoghno Nath, Adrish Banerjee</i>	
Signed Flexible Quadrature Spatial Modulation in Full-Duplex Two-Way Relay with PNC	61
<i>K S Shafrin, Neelakandan Rajamohan</i>	
Downlink Rate Maximization in Multicell FDD Massive MIMO System with Delayed CSI Feedback	67
<i>Manidipa Sarkar, Siddharth Deshmukh</i>	
SEU-Resilient Network Architecture: A Novel Formal-Methods Framework for Reliable 5G/6G Systems	73
<i>Ganesha, Sujit Kumar Chakrabarti</i>	
OptimaCore: A Real-Time Low-Latency Framework for Cloud-Native Applications	79
<i>Alagadapa Jaya Harsh Vardhan, Devansh Vinay Vashist, Somanaboina Nandish, Neha Agrawal</i>	
Start-of-Packet Detection: A Low-Complexity Solution for Next-Gen Wireless Receivers	85
<i>Simrandeep Kaur, Arhum Ahmad, Satyam Agarwal</i>	
PIE vs PI ² : Understanding AQM Dynamics with Cubic and BBR	91
<i>Arun Kumar R, Mohit P. Tahiliani</i>	

You Only Look at Panicles: CBAM-Augmented YOLOv8m for Precision Rice Yield Estimation from UAV Imagery	97
<i>Rakesh Kumar Sanodiya, Swarnajit Mondal, Pranav Kumar, Ravi Ranjan Prasad Karn</i>	
Bridging Semantics and Photometry: Realistic Flare Synthesis in Driving Environments	103
<i>Varun Bhajantri, Abinas Chopdar, Sudipta Mukhopadhyay</i>	
Dual-Stream Edge-Guided GAN for SAR Image Colorization	108
<i>Soham Pashte, Prachet Pandav, Divya Surve</i>	
Selective Masking Augmentation for Improved Wheat Head Localization under Occlusions	114
<i>Yasashwini Sai Gowri Pantakota, Karthik Seemakurthy, Andrews Agyemang Opoku, Sitadevi Bharatula</i>	
HAD-SR: Hybrid Attention-Augmented Dictionary Learning for Unpaired Image Super-Resolution	120
<i>Kannuru Srinadh, Karlapudi Ramakrishna, Valaparla David, Goruputi Lakshmi</i>	
TS-SAC: A Novel Deep Reinforcement Learning Framework for Sum Rate Optimization in NOMA Assisted Pinching Antenna Systems	126
<i>Shayan Pariyal, Deep S. Patel, Dhaval K. Patel</i>	
Kernel Linear Discriminant Analysis Based Precoding for Multitask Semantic Communication	132
<i>Simy M Baby, E S Gopi</i>	
Intelligent Decoding of Oddm in 6G Communications: A Deep Learning Approach for High-Mobility Scenarios	138
<i>Kavish Kumar, Rajeev Kumar, Himansu Ranjan Das, Sunandita Debnath</i>	
Joint Rate and Power Adaptation for Spatial Reuse in 802.11ax Using Deep Reinforcement Learning	144
<i>Kaushika S. Rathod, Ayush N. Patel, Dhaval K. Patel</i>	
Robust End-to-End Communication via NeuroCom: A Learned Symbol Mapping and Decoding Framework	150
<i>Dipanjan Sar, Rajarshi Mahapatra, Debanjan Das, Venkanna Udutalapally</i>	
Low-Complexity KKT-Based Access Point Placement for Cell-Free Hybrid VLC/RF Network	156
<i>Shaifali Gupta, Abotula Iswarya, Abhay Kumar Sah, Anshul Jaiswal</i>	
SCMA-Inspired Power-Domain NOMA with Belief Propagation Detection	162
<i>Anudeep Karnam, Yash Vasavada, Joel Fernandez</i>	
Joint Latency and Throughput Optimization Based Scheduling in Heterogeneous Multi-Access Network	168
<i>Manjunath Gonchigara Vemanna, Sharvari Ravindran, Jyotsna Bapat, Debabrata Das</i>	
Joint Estimation and Compensation for Receiver IQ Imbalance in IRS-Assisted OTFS System	174
<i>Sanjeet Kumar Bhagat, P. R. Sahu</i>	
OIRS-Assisted Hybrid THz/VLC Communication Under the Impact of Human Blockages	180
<i>Hanshita Prabhakar, Govind Kumar Jha, Vivek Ashok Bohara</i>	
Efficient RPA Decoding of Reed-Muller Codes with Structured 2-D Subspace Projections	186
<i>Vallabhaneni Kushal, Shiv Pratap Singh Rathore, Navin Kashyap</i>	
Decentralized Pliable Index Coding for Target Data Size	192
<i>Danya A B, Anjali P, Keerthana Rajesh, Evelyn Maria Baby, Nujoom Sageer Karat, Shanuja Sasi</i>	

A Code-Based Threshold Secret Sharing Scheme with Cheating Detection and Cheater Identification Mechanisms	198
<i>Tanmoy Mandal, Srinivasan Krishnaswamy, Ratnajit Bhattacharjee</i>	
Cooperative V2V Enhanced Index Coding for Vehicular Communications	204
<i>Alok Sukumaran, Alfred Shaiju, Ajay Suresh, Ansan Husain, Mukala Balaji, Nujoom Sageer Karat Deepthi P. P</i>	
A Study on Object Detection and Tracking by Millimeter Wave FMCW Radar	210
<i>Bishwam Agrawal, Subrata Maiti</i>	
A Zero-Overhead ISAC Framework for Target Localization in Downlink MIMO-OFDM Networks	216
<i>Ishita Sharma, Adarsh Patel</i>	
Interpretable Machine Learning Model for Indoor Activity Sensing Using WiFi on the Edge	222
<i>Albert Shaju, Chinmay J Pai, Lakshmi N Theagarajan, Sudhish N George, Yoshith Sai, Hashil Muhammed</i>	
Hardware Architecture of Dual Sensing Time and Reconfigurable Cooperative Spectrum Sensor for Dynamic Spectrum Access in Cognitive Radio Network	228
<i>Divya Agrawal, Rahul Shrestha</i>	
Dk-SSN: Data-Curvature Driven K-Stage Semi-Smooth Newton Unrolling for Image Denoising	234
<i>Koyyada Dinesh Kumar, Sourav Phogat, Sujit Kumar Sahoo</i>	
Carrier Frequency Discrimination Using Two Bit Quantized Samples at the Receiver	239
<i>Aditya Kabare, Sibi Raj B. Pillai, Kumar Appaiah</i>	
Sequential Change Detection Under Markov Setup With Unknown Pre-Change and Post-Change Distributions	245
<i>A. B. Gulaguli, S. Singh, R. K. Bansal</i>	
Energy Clustering for Passive SONAR Signal Detection	251
<i>Mikkili Deepti, Santosh Nannuru, Deepa B, Pratheek Suresh Kumar</i>	
Hardware Implementation of Weight Computation Techniques for Pair-Wise Orthogonal Transform Used in Onboard Satellite Spectral Preprocessing	257
<i>Priyank Prajapati, Bandaru Poorna Chandra, Anand Darji, Jimit Gadhia, Ankur Garg, Amit Joshi</i>	
Dual Channel Squeeze-Excitation Based Res-Net Architecture for Acute Ischemic Stroke Lesion Segmentation Using Diffusion-Weighted Imaging	263
<i>Manukonda Avinash, Tripti Goel, Rabul H Laskar</i>	
SE-CSAF-BUS-Net: Stage-Enhanced Cross-Scale Adaptive Fusion Network for Breast Ultrasound Segmentation	269
<i>Pervez Mubeen, Panigrahi Srikanth, Srivarsha Chivukula, Siddharth Donthula</i>	
KANSeg-BT: Adaptive Kolmogorov–Arnold Segmentation Network for Brain Tumor MRI	275
<i>Ankit Kumar, Shreya Awasthi, Manish Kumar, Mukul S. Sutaone</i>	
CNN Based Specimen Image Reconstruction for Optical Coherence Tomography	281
<i>Dipti Kanika Mahato, Johan Abraham George, Nitin Bhatia, Manish Narwaria</i>	
Impact of Physical Channel Impairments and Detector Noise on BB84 Quantum Key Distribution: A Python-Based Simulation Study	286
<i>Avinash Upadhyay, Shashwat Saxena, Ritu Raj Singh, Pravindra Kumar, Anand Srivastava, Vimal Bhatia</i>	

Noisy Soft Syndrome Decoding of Quantum LDPC Codes for the Quantum Erasure Channel	292
<i>Gayathri R., Shobhit Bhatnagar, P Vijay Kumar</i>	
A Practical Framework for Simulating the Integration of QKD in TLS Protocol Towards Quantum Secure Communication	298
<i>Radhika Jamwal, Sarada Prasad Gochhayat, Anshuman Kalla</i>	
Q-Detect: An Attention-Guided Quantum Ensemble Framework for Robust DeepFake Audio Detection	304
<i>Angshuman Roy, Anuvab Sen, Soham Haldar, Subhabrata Roy</i>	
$\mathbb{F}_q$ -Linear Qudit Data Syndrome Codes	310
<i>Goli Nagamani, Pradeep Kiran Sarvepalli</i>	
Performance Analysis of STAR-RIS Aided Vehicular NOMA Communications Over Rayleigh Time-Selective Fading Channels	316
<i>Luxmi Kant Vishwakarma, Radhika Gour, Suneel Yadav, Devendra S. Gurjar</i>	
RIS-Assisted Communication Under Specially Correlated Nakagami-M Fading: Modeling and Performance Evaluation	322
<i>Madhav Ramesh Gawande, Venkata Mani Venkata</i>	
Performance Analysis of RIS-Assisted M -QAM Systems Over Double Nakagami- m Fading Channels	328
<i>Chakali Sandhya, Vakamulla Venkata Mani, Renikunta Mallaiah, Suresh Panchala</i>	
Performance Evaluation of PBCH Equalization in the Presence of CFO for B5G and 6G Systems	334
<i>Abhinav Anand, Adarsh Ravi, Preetam Kumar</i>	
Investigating Whisper's Prompt to Enhance Indian Accent Speech Recognition	340
<i>Premjeet Singh, Abharna K, Balaji R L, Gayathri R, Reshma Sefali A, Gopal Kumar Agrawal Asmitha Shree R</i>	
Wav2Vec 2.0-Driven BiLSTM-Pooling Framework for Speech/Music Classification	346
<i>Vihās Nimmagadda, Chodipindi Venkata Sai Abhiram, Akhilesh Kumar Dubey, D. Govind Samudravijaya K., Suryakanth V Gangashetty</i>	
Learning to Discover: A Generalized Framework for Raga Identification without Forgetting	352
<i>Parampreet Singh, Somya Kumar, Chaitanya Shailendra Nitawe, Vipul Arora</i>	
Harmonic Summation-Based Robust Pitch Estimation in Noisy and Reverberant Environments	358
<i>Anup Singh, Kris Demuynck</i>	
Multilingual TTS for Improving Spoken Language Identification with Low-Resource Assumptions	364
<i>Spandan Dey, Karthik Prasad, Surbhi Kumari, Debi Dutta Dash, Utpalika Acharya Himanshu Sekhar Muduli, Ashutosh Sahu, Gopal Kumar Agrawal, Bharat Maheshwari, Rashmita Routray</i>	
Design and Implementation of a 256-Point FFT Hardware for Power Spectral Density Computation in EEG-Based Mental Stress Recognition	370
<i>Aditi Paul, Raktim Acharjee, Shaik Rafi Ahamed, Roy Paily Palathinkal</i>	
Prediction of Antibiotic Resistance in Patients with Uncomplicated Urinary Tract Infection	376
<i>Rahul LR, Sathish Ande</i>	
Bonn EEG as Graphs: Structural vs. Recurrence Networks for Tiny-Data Seizure Screening	382
<i>Ekta Srivastava, Siddhant Ujjain, Tapan Kumar Gandhi, Sandeep Kumar</i>	

Analyzing Gender-Specific Neural Functional Connectivity Patterns for Multi-Channel EEG-Based Emotion Recognition	388
<i>Raktim Acharjee, Aditi Paul, Shaik Rafi Ahamed</i>	
Distributed Polarization Beamforming for Optical Wireless Power Transfer	394
<i>Srishti Sharma, Swades De</i>	
RIS-Assisted SWIPT Under Bounded CSI Uncertainty: A Worst-Case Max-Min Approach	400
<i>Dev Shah, Kunwar Pritiraj Rajput, Manish Kumar</i>	
Design of a 3-Bit Near-Field Focused Reflectarray for Wireless Power Transfer with Single-Focus Characteristics	406
<i>Dharishti Thappa, Ummer Rashid Dar, Archana Rajput</i>	
Learning-Driven Joint Beamforming and RIS Phase Optimization for Integrated Sensing and Communication Systems	412
<i>Sucharita Chakraborty, Daisy Devi, Priyadarshini Borah, Uparshi Patowary, Latashree Kashyap Smriti Khakolary, Neeharika Rabha, Wasim Arif</i>	
Reinforcement Learning for Secrecy Optimization in Underwater Energy Harvesting Relay Network	418
<i>Shalini Tripathi, Ankur Bansal, Chinmoy Kundu</i>	
Spatial Distortion-Guided Diffusion Inversion for Blind Image Restoration	424
<i>Ajinkya Hase, Parimala Kancharla</i>	
UCRS: Uncertainty-Calibrated Region Sampling for Real-Time Small Object Detection in High-Resolution Images	430
<i>Akash Kumar, Yerram Deekshith Kumar, Kannuru Srinadh, Upendra Kumar Sahoo</i>	
Spatio-Temporal Transformer Block with a Skeletal Temporal Transformer for Human Activity Recognition	436
<i>Snehasis Mukherjee, Harshdeep Singh, Aditya Mukerji</i>	
Cross Spectral Domain Aware Fusion Transformer for Face Recognition	442
<i>Nilu R Salim, Aditya Jyosula, Niranjana B</i>	
Perceptually Aligned Vision Transformers for No-Reference Image Quality Assessment	448
<i>Riya Arora, Parimala Kancharla</i>	
Lunar Crater Detection Using Hybrid Residual U-Net and Multi-Scale Template Matching with DEM Data	454
<i>Deeksha, Toshana Meenpal, Palak Ahuja</i>	
SISN: Signer-Invariant Skeletal Normalization for Sign Language Production	460
<i>Ragesh M, B Arjun K C, Niyantarana T, T Inish, M. Aiswarya Lakshmi, Nagarathna Ravi, E Rajalakshmi Bandana Raj Nandini Tikmani, Ashapurna Marndi</i>	
FedAMF: Federated Alignment with Multi-Part Feature for Visible-Infrared Person Re-Identification	466
<i>Bhairi Neelima, Nirmala Murali, Deepak Mishra</i>	
VimCLIP: A Vision Mamba Based Multimodal Approach for Retrieval and Zero-Shot Classification Tasks	472
<i>Ambarish Parthasarathy, Sumohana Channappayya</i>	

AV-IO: Audio-Visual Indoor-Outdoor Classification Dataset via Multimodal Weak Supervision	478
<i>Athira Krishnan R, Sumohana S Channappayya</i>	
TSRNet: A Lightweight Thermal Saliency Refinement Network for Tiny Human Detection	484
<i>Vidhan Jain, Tanish, Sobhan Kanti Dhara</i>	
From RF to Acoustic: A DL Based Receiving Prototype for Underwater Acoustic Communication	490
<i>Shiv Kumar, Arhum Ahmad, Satyam Agarwal, Sam Darshi</i>	
Genetic Algorithm for Computing an Upper Bound on Undirected Unicast Network Information Flow	496
<i>Vikas Dangi, Satyajit Thakor</i>	
On the Capacity of $\mathcal{G}_{\left(m_1, m_2\right), r}$ Networks	502
<i>Vikrant Singh, Brijesh Kumar Rai, Tony Jacob</i>	
On the Distribution of Age of Incorrect Information for Slotted ALOHA with Applications to Goal-Oriented Communication	508
<i>Minha Mubarak, Vineeth Bala Sukumaran</i>	
Dynamic Multi-Channel Scheduling Using Restless Bandits with Partial Observability	514
<i>Rahul Meshram, Kesav Ram Kaza</i>	
Physical Layer Security Analysis of UOWC Systems: A Partial Secrecy Perspective	520
<i>Pallavi Bhati, Aashish Mathur, Nitin Bhatia</i>	
An Open-Loop Resonator-Based Ultra-Wide Band Antenna with Notch Band Characteristics	526
<i>Geriki Polaiah</i>	
A Compact U-Slotted Wideband Antenna for SAR Imaging and Radar Sensing Systems	532
<i>Nithish Roshan S, Nithish G, Kishore N, Rajeshkumar Venkatesan</i>	
Impact of Antenna Polarization on the Frequency Dependent Pathloss Characteristics of Anomalous Reflectors Assisted Indoor Wireless Links	537
<i>Atli Lemma Gebretsadik, Raju Malleboina, Debddeep Sarkar</i>	
Deep Hybrid Networks for mmWave MIMO-OFDM Channel Estimation for 5G/B5G	543
<i>Sandeep Kumar Singh, Aryan Mittal, Amit Agarwal</i>	
SRS-Aided Channel Estimation and Doppler-Adaptive CSI Reuse for 5G NR MU-MIMO: A Slot-Level Performance Evaluation	549
<i>Lalit Kumar Bharti, Adarsh Ravi, Krishnan Venkataraghvan, Preetam Kumar</i>	
Pilot Clustering in Cell-Free mMIMO Systems Under Mixed LoS/NLoS Channels	555
<i>Ashish Pratap Singh, Anubhab Chowdhury, Ribhu Chopra</i>	
Blind Detection-Estimation and Performance Characterization in Cell-Free Massive MIMO	560
<i>Aditya Sarkar, Sk Md Shafique Anwar, Adarsh Patel</i>	
Semi-Blind and Blind Methods for Joint Channel Estimation and Symbol Detection in MIMO Systems Using Alternative Projections	566
<i>Aarushi Dhami, Yash Vasavada, Jeffrey H. Reed</i>	
MiT-DAUnet: MiT Enhanced Dual Attention Unet for Medical Segmentation	572
<i>Kaniveta Chandrudu, Panigrahi Srikanth, Kaushal Sambanna, Sanjana Jhansi Ganji, Sriram Shivakeshav</i>	

EA-SwiUNet: A Swin Transformer and Attention-Based UNet Framework for Automatic Fetal Head Circumference Segmentation	578
<i>Thunakala Bala Krishna, Nithish Kumar S, Jogeshwarran Smk, Sumanth Arige</i>	
<i>Manikandan Vazhora Malayil</i>	
Source Free Domain Adaptation for Retinal Image Segmentation Using Fourier Style Augmentation	584
<i>Chumki Dey, Manisha Verma, Sudhakar Kumawat</i>	
DLSPPI: Deep Learning-Based Prediction of Protein-Protein and Protein-Peptide Interactions Using Structure-based Features	590
<i>Chinmay Majee, Sumohana Channappayya, Eerappa Rajakumara</i>	
Autoencoder Based Optimized SSL Representations: Complexity Minimization and Improved Dysarthric ASR	596
<i>Paban Sapkota, Hemant Kumar Kathania, Mikko Kurimo, Shrikanth Narayanan, Sudarsana Reddy Kadi</i>	
Enhancing Asr Performance in the Medical Domain for Dravidian Languages	602
<i>Sri Charan Devarakonda, Ravi Sastry Kolluru, Manjula Sri Rayudu, Rashmi Kapoor, Madhu G</i>	
<i>Anil Kumar Vuppala</i>	
Speech-Driven Early Oral Cancer Screening Using Adaptive Variational Mode Decomposition and Multi-Modal Attention Network	608
<i>Ashutosh Verma, Rantu Buragohain, Atul Kumar, Karan Nathwani</i>	
Reducing False Wake-up Activations in Voice Assistants using Deep Liveness Detection	614
<i>Madhu R. Kamble, Ramya Viswanathan, K. S Rajesh Krishna</i>	
Discrete-Phase Metasurfaces-Aided Index Modulation for Practical RIS Deployments	620
<i>Bibin Baby John, Yash Vasavada</i>	
RIS-Assisted 5G NR PHY Performance with OpenAirInterface Codebase and USRP Hardware	626
<i>Amrita Mukherjee, Aakash Jaiswal, Smriti Kumar, Priyanka Das, Arzad Alam Kherani</i>	
Machine-Learning-Assisted Rapid Design of 2-Bit Digital Coding Metasurfaces Unit Cell	632
<i>Ajit Kumar, Praveen Singh, Ravi S. Hegde</i>	
Polarization-Insensitive Time-Modulated Frequency Selective Surface with Asymmetric Geometry for Radar Countermeasures	638
<i>Soham Nandi, Patinavalasa Megh Sainadh, Vijay Kumar Sutrar, Srivathsan Vasudevan, Saptarshi Ghosh</i>	
An Equivalent Circuit-Driven Multi-Objective Genetic Algorithm Optimization Approach for FSS Design	643
<i>Gaurav Sharma, Deepak, Akhila Gouda, Rajesh Mungasaji Bodade, Saptarshi Ghosh</i>	
Transformer-Based Human Activity Recognition Using Wearable Devices	649
<i>Akshay Kumar, Dheeraj Kumar</i>	
Exposing Privacy Risks in Residential Air Pollution Monitoring	655
<i>Krishna Singh, Sachin Chaudhari</i>	
An Energy-Efficient and Compact AES S-Box Architecture Optimized for IoT Applications in Advanced Technology Nodes	661
<i>Ruby Mishra, Manish Okade, Kamalakanta Mahapatra</i>	

IoT-Assisted Multi-Robot System: Impact of Information Sharing on Control	667
<i>Satwik Mondal, Manish H. Kausik, Sudipta Saha</i>	
Stage-Aware Event-Conditioned Transformers for Real-Time Odor Recognition with Electronic Noses	673
<i>Aayush Bhansali, Aditya Nigam</i>	
Performance Investigation of Secure Free-Space Optical Communication System	679
<i>Prasant Kumar Sahu, Shreepreet Sahu, Debalina Ghosh</i>	
Experimental Analysis of Air-Bubble-Induced Turbulent Underwater Optical Channels with Evaluation of a CNN-LSTM-Based Channel Classifier	685
<i>Sonal Shashikanth, Savidhan C S Shetty, Raghavendra B S, Shripathi U Acharya</i>	
Memory-Aware Modeling of XPM-Based NRZ-OOK to RZ-BPSK All-Optical Conversion	691
<i>Nidhi Singh, Yatindra Nath Singh</i>	
Design and Implementation of L-Band EDFA for 32 Gbaud Long Wavelength QPSK Transmission	697
<i>Nithya Priya, Siva Subramaniam, Jonaq Niveer Sarma, Deepa Venkitesh</i>	
CATES: Content-Aware Traffic-Engineering in SDN-NDN	703
<i>Bishal Kumar Nath, Nityananda Sarma, Dilip Kumar Saikia, Nabajyoti Medhi</i>	
CRISP: Calibrated Rule Inference for Trustworthy In-Network Classification	709
<i>G Kavın Rajan, Nagarathna Ravi</i>	
Impact of Mode Switching on Short Transfers Over CoAP for D2D-Enabled V2V Communication : A Study on Realtime Inference Using ANN Splitting	715
<i>Abhijan Bhattacharyya, Suraj Kumar Mahato, Ashis Sau, Bhaskar Sardar, Debasish Saha</i>	
Risk-Aware Network Slicing for 6G IoV: An Uncertainty-Driven and Fairness-Aware Digital Twin Optimizer Framework	721
<i>Tanay Darshan, Sai Tejesh Reddy, Harsada K, Sritha Manasa, Sundaresan Sabapathy, Deepika Sasi Srinivasa Rao</i>	
DDQN-Enabled UAV Path Planning in Non-Terrestrial Networks Under ICAS Constraints	727
<i>Aman Jaiswal, Anirudh Agarwal, Nishant Gupta, Deepak Mishra, Vaibhav Kumar Gupta</i>	
Design and Experimental Validation of a Wideband Antipodal Vivaldi Antenna Array for Drone/UAV Neutralization Systems	733
<i>Kundan Kumar Suman, Varun Chaudhary, Aks Raj, Ravi Kumar Gangwar</i>	
Isolation Improvement of an UWB MIMO Antenna	739
<i>Debadrita Saha, Tamasi Moyra, Lakhindar Murmu</i>	
A 6-Way Asymmetric Cylindrical-Cavity-Based Power Divider at Ka-Band	744
<i>Priyanka, Mahima Arrawatia, Abburu Venkata Guru Subramanyam, Ratnajit Bhattacharjee</i>	
Multilayer LTCC Bandpass Filter Using Broadside Coupled Stripline with Microstrip Feed	749
<i>Sayyad Shahwaz Ali, Dillibabu E</i>	
Design of Band Stop Filter Using Folded Suspended Substrate Stripline	754
<i>Rupa Samyuktha Kotla, Dillibabu E, Satyanarayana Vuta</i>	