# WAMS 2024

## Raghu Engineering College (A), Visakhapatnam

## PROGRAM SCHEDULE

| Preconference Workshop Schedule | | |
|---|---|---|
| WAMS 2024 : Day-0 : 28 Feb 2024 | | |
| **Lecture #** | **Time Slot** | **Speaker & Title** |
| | **09.00-09.30** | Workshop & WAMS 2024 Registrations |
| | **09.30-09.35** | Opening Remarks |
| **1** | **09:35- 10:20** | **Dr Sudhakar Rao** (President & CEO, RaoS Consultants LLC, USA)<br>**Title:** "Advanced Antenna Designs for Space, Air & Ground Communications: An Industry Perspective" |
| **2** | **10:20-11:05** | **Dr Clency Lee- Yow** (CTO, Vitesse/ Custom Microwave Inc., USA)<br>**Title:** "Vitesse Systems Antenna Technologies and Capabilities" |
| | **11.05-11.20** | **Tea Break** |
| **3** | **11.20-12.05** | **Dr Nacer Chahat** (IEEE Fellow, System Engineer, NASA/JPL, USA)<br>**Title:** "Antenna Designs Shaping the Future of Space Exploration" |
| **4** | **12.05-12.50** | **Dr Paolo Focardi** (IEEE Senior Member, Senior RF Microwave Engineer, NASA/JPL, USA)<br>**Title:** "Antenna Systems for Space Applications at NASA Jet Propulsion Laboratory" |
| | **12.50-13.30** | **Lunch** |
| **5** | **13.30-14.15** | **Dr Gaurangi Gupta** (IEEE APS YP Ambassador, Antenna Engineer, NASA/JPL, USA)<br>**Title:** "Innovative Antennas for Satellite Telecom, Radar Systems and Radio Telescope" |
| **6** | **14.15-15.00** | **Abhishek Tiwari** (Product Manager for Antenna, RF and Radar applications at MathWorks)<br>**Title:** "RF Design of Wide band mmWave Beamforming Systems" |
| **7** | **15.00-15.45** | **Dr Shiv Narayan** (CSIR-National Aerospace Laboratories (CSIR-NAL), Bangalore)<br>**Title:** "Fundamentals of FSS structures and its Applications" |
| | **15.45-16:00** | **Tea Break** |
| **8** | **16.00-16.45** | **Dr. Jonathan Sauder** (NASA Jet Propulsion Laboratory, USA)<br>**Title:** "Deployable Antenna Mechanism and Structural Design: Design Principles and Lessons Learned" |
| **9** | **16.45-17.30** | **Dr. Ch Anil Kumar** (Scientist-E, Naval Science and Technological Laboratory (NSTL), Visakhapatnam)<br>**Title:** "Multimode Antenna Arrays : Beamforming under hardware constraints." |
| | **17.30-18.15** | **Closing Remarks, Q&A and Interaction with Speakers** |
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# WAMS 2024

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## PROGRAM SCHEDULE

| WAMS 2024 : Day-1 : 29 Feb 2024 | | | | |
|---|---|---|---|---|
| **Time** | | **Room 1** | **Room 2** | **Room 3** |
| FN | From 8.00 | Registration | | |
| | 9.30-10.30 | Inauguration, General Chair's Welcome Address & Dignitories' Speeches | | |
| | 10.30-11.10 | Keynote 1: Dr. Nacer Chahat (NASA/JPL) | | |
| | 11.10-11.40 | Opening of Exhibition by Chief Guest & Tea Break | | |
| | 11.40-12.20 | Keynote 2: Dr. C.S. Rao (QuadGen Wireless) | | |
| | 12.20-13.00 | Keynote 3: Dr. Clency Lee-Yow (Custom Microwave Inc.) | | |
| AN | 13.00 to 14.00 | Lunch Break | | |
| | 14.00 to 14.40 | Keynote 4: Mr. Rajeev Jyoti (In-Space) | | |
| | 14.40 to 16.40 | YP Session Invited Talks | A1 | W1 |
| | | YP Session: Presentations | (84, 196, 102, 106, 230, 244, 198) | (111, 119, 225, 254, 273) |
| | 16.40 to 16.50 | Tea Break | | |
| | 16.50 to 18.50 | Student Activity Session (185, 141, 19, 49, 212, 89, 213, 71, 156) | A2 (38, 67, 116, 137, 172, 176, 251) | M1 (12, 31, 37, 44, 48, 64) |
| | 18.50 to 20.30 | Inaugural Dinner & Networking | | |

| WAMS 2024 : Day-2 : 01 Mar 2024 | | | | |
|---|---|---|---|---|
| **Time** | | **Room 1** | **Room 2** | **Room 3** |
| FN | 9.30 to 11.00 | Invited Talk 1: Prof. Desmond Sim (Taiwan) | | |
| | | Invited Talk-2: Prof. Taimoor Khan (NIT Silchar) | | |
| | | Invited Talk 3: Dr. Madhumita Chakravarthy (CMDS, DRDO) | | |
| | 11.00 to 11.15 | Tea Break & Posters | | |
| | 11.15 to 13.00 | WiE Session: Invited Speakers | M2 | W2 |
| | | | (56, 99, 157, 167, 189, 227, 15) | (13, 28, 34, 52, 117, 163, 121, 45, 253) |
| AN | 13.00 to 14.00 | Lunch Break | | |
| | 14.00 to 16.00 | WiE Session:Talks | M3 | W3 |
| | | | (103, 231, 237, 240) | (154, 166, 191, 214, 217, 236) |
| | 16.00 to 16.15 | Tea Break | | |
| | 16.15 to 18.15 | A3: SS 1 (Radar Antennas) | M4 | A4 |
| | | (29, 150, 17, 26, 98, 151, 152) | (27, 35, 57, 107, 132, 133) | (16, 178, 202, 59, 101, 181) |
| | 18.15 to 19.30 | Networking & Refreshments - Executive Committee Meeting | | |

# WAMS 2024

## Raghu Engineering College (A), Visakhapatnam

## PROGRAM SCHEDULE

| WAMS 2024 : Day-3 : 02 Mar 2024 | | | | |
|---|---|---|---|---|
| Time | | Room 1 | Room 2 | Room 3 |
| FN | 9.30 to 11.00 | A5: SS2 (Satellite Antennas) | M5 | W4 |
| | | (197, 228, 32, 127, 4, 82, 169) | (36, 109, 138, 155, 206, 243, 205) | (9, 21, 142, 232, 255, 258) |
| | 11.00 to 11.15 | Tea Break | | |
| | 11.15 to 13.00 | Industry Session | M6 | A6 |
| | | | (61, 25, 78, 130, 183, 239, 256) | (30, 209, 252, 182 , 95, 131, 262) |
| | 13.00 to 14.00 | Lunch Break | | |
| AN | 14.00 to 16.00 | A7: SS3 (Feeds & Reflector Antennas) | A8 | A9 |
| | | (54, 177, 233, 229, 43) | (128, 148, 146, 164, 187, 184, 245) | (135, 144, 136, 224, 147) |
| | 16.00 to 16.15 | Tea Break | | |
| | 16.15 to 18.15 | Interactive Panel Session (Academia/Industry) | A10: SS4 (Metamaterial Based Arrays- 1) | M7 |
| | | | (94, 112, 115, 204, 257, 60) | (69, 58, 90, 65, 122) |
| | 18.30 to 21.30 | Awards Presentation, Cultural Program and Banquet Dinner | | |

| WAMS 2024 : Day-4 : 03 Mar 2024 | | | | |
|---|---|---|---|---|
| Time | | Room 1 | Room 2 | Room 3 |
| FN | 9.30 to 11.30 | Invited Talk-4: Dr. Dhananjay Jahagirdar (RCI, DRDO) | | |
| | | Invited Talk-5: Dr. Jonathan Sauder (NASA/JPL) | | |
| | | Invited Talk-6: Prof. Dhaval Pujara (PDEU) | | |
| | | Future WAMS / Feedback from Participants | | |
| | 11.30 to 11.45 | Tea Break | | |
| | 11.45 to 13.15 | A11: SS5 (Metasurface Antennas) | A13 | A14 |
| | | (222, 210, 200, 74, 159, 143, 188) | (249, 238, 235, 129, 267, 263, 234, 218) | (223, 259, 271, 270, 145, 247) |
| AN | 13.15 to 14.00 | Lunch Break | | |
| | 14.00 to 14.30 | Invited Talk-7: Dr. Zubair Akhter (TII, Abu Dhabi, UAE) | | |
| | 14.30 to 16.30 | A12: SS6 (Metamat. Based Arrays-2) | A15 | |
| | | (114, 63, 195, 33, 11) | (55, 10, 260, 96, 7, 22, 242) | |
| | 16.30 to 16.45 | Refreshments | | |

**TPC, WAMS 2024**
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# WAMS 2024

## Raghu Engineering College (A), Visakhapatnam

### PROGRAM SCHEDULE

### Track-wise Papers Details

| Track : ANTENNA | | |
|---|---|---|
| **Session : A1: Feeds & Rad. Elem** | | **Chairs. B. Subbarao & V. Kothapudi** |
| **Paper ID** | **Paper Title** | **Authors** |
| 84 | A study of wire Bi-conical antenna for wide-band application in Radio Astronomy | Harsha A Tanti, Amit Kumar Pradhan, Abhirup Datta |
| 196 | Radiation Pattern Improvement of Bowtie Antenna Using Annular Ring for Vehicle-to-Vehicle Communication | Jagadeesh Babu Kamili,Subbarao Boddu, Tatha Babu Addepalli, Bhaskara Rao Perli, Kiran Kumar Bandi, DEVATHOTI RAJENDRA PRASAD, Harish RVS |
| 102 | Single/Dual-Polarized λ/4 Impedance Transformer Coupled Square Microstrip Patch Antenna for X-band Applications | VENKATA KISHORE KOTHAPUDI |
| 106 | LTCC based Microstrip Antenna designed for Millimeter Wave Applications using CPW-Fed Technique | Varikuppala Akhila, Bharathi Anantha, Ahmad Farid sulaimani, G. Ravi Shankar Reddy |
| 230 | Low-Cost Monolithic Feed Assemblies for Satellite Antennas | Sudhakar Rao, Philip Venezia, Clency Lee-Yow |
| 244 | Design and Analysis of Flexible Substrate-based Multi-band Patch Antenna for 5G and Satellite Communication Applications | Ram Duvvada Sandeep |
| 198 | Design and Analysis of Square Fractal Shaped Planar Antenna | Gullala Deekshitha, Ramesh Babu SSV Botcha, Duvvarapu Pavani, Chimurala Chandra sekhar, Akash Kumar Gupta, Modali SSS Srinivas, Jakka Syamala |
| | | |
| **Session : A2: Wideband Ant. & Components** | | **Chairs: G. Ram & P. Dalal** |
| **Paper ID** | **Paper Title** | **Authors** |
| 38 | Design of Dual-Band SIW Cavity Backed Ring Slot Antenna for X/Ka-Band Applications | Aparna Elagandula, Dr. Gopi Ram, Arun Kumar Gande |
| 251 | Analyzing Specific Absorption Rate (SAR) for a Frequency-Reconfigurable Textenna | Ram Duvvada Sandeep, Salma Syed, Madhav B T P |
| 67 | Dual-band, Dual-polarized Reconfigurable Reflectarray Antenna Operating at C and X Band | Sreekavya M K, Basudeb Ghosh, Basudev Majumder |
| 116 | Design of Integrated Hexagonal Microstrip Patch antenna with DGS for Wideband Applications | Bathina Upender Rao, N V Koteswara Rao, P Chandra Sekhar |
| 137 | Rectangle Patch Antenna with Slots and Defective Ground Structure for C-band Applications | Ramana Reddy R., Bandham Balaji, Vaddi Yaseswini, Busetty Spandana |
| 172 | Open Ended Slot-Loaded Dual-band Monopole Antenna for WiMAX/ISM-Band/WLAN/sub-6 GHz Applications. | Shougaijam Singh Chinglemba, Deepak Kumar Barik, Kalyan Mondal, Mohd Azharuddin |
| 176 | Design and Analysis of a Slotted Microstrip Patch Antenna for Wide-Band Applications with Controlled Resonance | Surabathula Srujana Keerthana, Deepak Ummidi, Ramadevi Yandrapu, Govindh Seerapu, Aruna Kumari S, Modali SSS Srinivas |

| Session : A3: Special Session 1 : Radar Ant | | Chairs: S. Dey & A. Kedar |
|---|---|---|
| **Paper ID** | **Paper Title** | **Authors** |
| 29 | A Sparse Concentric Ring Antenna Array Design with Wide Scanning and Low Sidelobe Level | Ashutosh Kedar |
| 150 | Metamaterial loaded 3D Stacked Antenna for Microwave Imaging of the Human Head | Athul O Asok, Priyam Kailash, SUKOMAL DEY |
| 17 | Antipodal Vivaldi antenna array for 5G mmWave applications at 28 GHz | Golla Ramyasree, Suman Nelaturi |
| 26 | DESIGN OF CIRCULAR MICROSTRIP ANTENNA WITH METASURFACE SUPERSTATE FOR WIFI APPLICATIONS | ROHIT PENKI, Dr.AMLAN DATTA, Dr.M.SATYANARAYANA |
| 98 | Design of broadband metamaterial absorbers for Cand X-band applications | Ramesh Amugothu, Dr. Vakula D |
| 151 | A LHCP Antenna for Smarter IoT Wireless Networks | Somak Bhattacharyya, Munasa Yuvaraju, Kamisetty Sasank, Diptiranjan Samantaray, Biswa Ranjan Swain, Nikhil Kumar |
| 152 | A High-Gain Metasurface Antenna for Compact 5G Applications | Sathwik Kommuju, Diptiranjan Samantaray, Somak Bhattacharyya |
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| Session : A4: Array Antennas | | Chairs. S. Reddy & D. Chaturvedi |
|---|---|---|
| **Paper ID** | **Paper Title** | **Authors** |
| | | |
| 16 | Side Lobe and Side Band Reduction of Time Modulated Circular Antenna Array Using Novel Particle Swarm Optimization Algorithm | Satish Kumar, Dr. Gopi Ram, Durbadal Mandal, Dr. Rajib Kar |
| 178 | A Half-Mode SIW Cavity-Backed 3-Ports MIMO Antenna | Buela Pramodini, Dr.Divya Chaturvedi |
| 202 | Direction Finding by Time Modulated Linear Antenna arrays using Root-MUSIC algorithm | Aswathi P, Magnel Rose Mathew, Dr. Deepti Das Krishna, Murali Krishnaswamy |
| 59 | Self-Isolated Frequency Reconfigurable two-port MIMO Antenna for 5G Application | Suresh Angadi, Yashna Sharma, Raghava C Nallanthighal, Thennarasan Sabapathy |
| 101 | A Tri-band Shared Aperture Binomial Antenna Array for Air- SAR Applications | VENKATA KISHORE KOTHAPUDI, PRAVEENA KATI |
| 181 | Design of a 4-element UWB-MIMO antenna for X, Ku, and, K band applications | PANKAJ KUMAR GAUTAM, Dharmendra Kumar Jhariya |
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| Session : A5: Special Session 2 : Satellite Ant. | | Chairs: P. Focardi & Rajeev Jyoti |
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| **Paper ID** | **Paper Title** | **Authors** |
| 197 | Dual Band Symmetrical Semi Cylindrical DRA with patch antenna for C and X-Band applications | Dhavaleswarapu Venkatachari, Sudhakar Sahu, DARIMIREDDY NARESH KUMAR |
| 228 | High-Efficieny All-Metal Metasurface Antenna Design for Space Applications | Kristy A Hecht, Nacer Chahat, Curtis Jin, Goutam Chattopadhyay, Mario Mencagli |
| 32 | Uncertainty Quantification of the Gain Budget for INCUS | Paolo Focardi, Alessio Mancini, Gaurangi Gupta |
| 127 | Design and Analysis of Volumetric Antenna using SIW Technology loaded with DGS for Satellite Communication | RAMPRASAD RAVULA, E. Kusuma Kumari, PUNNAM NAGARAJU |
| 4 | Significance of Phase Center in Satellite Antenna Designs | Sudhakar Rao |
| 82 | Horn Feed Assembly Modification for INCUS | Gaurangi Gupta, Paolo Focardi |

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| 169 | Linearly Polarised Normal Mode Helix Antenna at UHF-Band for Inter-Satellite Communication Application | Sai Kraanthi Vatyam, Ventaka Sitaraman Puram, Sandhya Reddy B, M Kumar, C Sriharsha, Senthil Kumar V |
| **Session : A6: Reconfigurable Antennas** | | **Chairs: A. Bharathi & N. Darimireddy** |
| **Paper ID** | **Paper Title** | **Authors** |
| 30 | A Novel Reconfigurable UWB Antenna for Spectral Sensing and Signal Transmission in Cognitive Radio Applications | Bharathi Anantha, Gosula Ravi Shankar Reddy, Srilakshmi Aouthu |
| 209 | Design of Frequency Reconfigurable Dual-Band Rectangular Ring-Shaped Antenna with High Isolation | NARESHKUMAR DARIMIREDDY, RAMAMOHAN BONGU, Siva Ganga Prasad M, Vamsee Krishna |
| 252 | Design of a Hybrid Frequency and Pattern Reconfigurable Antenna for 5G Sub-6 GHz Applications | Hari Shankar Singh, Manpreet Kaur, Mayank Agarwal |
| 182 | A Compact and Wide Band Antenna for Millimeter Wave Applications | Syed Muzahir Abbas, Musa Hussain, Umair Rafique, Priyanka Dala, Yong Zhu |
| 95 | Varactor Tunable Compact MIMO Antenna with reconfigurable Multi band operating and notching for Cognitive Radio Applications | Saritha Vanka, Chandrasekhar C |
| 131 | Assessing the Impact of Human Sweat on the Performance of Frequency-Reconfigurable Textenna | Ram Duvvada Sandeep, Salma Syed, Madhav B T P |
| 262 | Exploring the Impact of Bending on Circularly Polarized Textile Reconfigurable Antenna | Ram Duvvada Sandeep, Salma Syed, Madhav B T P |
| **Session : A7: Special Session 3 : Feeds & Reflector Antennas** | | **Chairs: P. Kumar & G. Gupta** |
| **Paper ID** | **Paper Title** | **Authors** |
| 54 | Deployment Mechanisms for Reflectors, Booms, and Feeds Across JPL Missions and Technology | Jonathan F Sauder |
| 177 | High Efficiency Small Reflector Antenna Design For Satellite Application | Pavan Kumar, Krishan Gopal, Venkata Sitaraman Puram, Sriharsha Chandrashekar, Senthil Kumar V |
| 233 | Reflector Antennas Design and Analysis Software | Gaurangi Gupta, Sriya Kotta |
| 229 | Generation of High-Gain Steered Beam using Dipole Antenna Loaded on Anomalous Reflector with Near-field Correction | Dheeraj Girish, SATEESH SHIVANANDA BADADAL, Mahesh A, Debdeep Sarkar |
| 43 | A wideband single polarization antenna for precision cosmology in S-band | Arun Patil, Mayuri Sathyanarayana Rao, Mahesh A, Keerthipriya Sathish |
| **Session : A8: Wearable Ant** | | **Chairs: Z. Akhter & R. Reddy** |
| **Paper ID** | **Paper Title** | **Authors** |
| 128 | Wearable Button type Antenna for Wireless Body Area Network Applications | Dattatreya Gopi, P Sai Saketh Ram, G. V. Sridhar, R. Tarun Kumar, S Jahnavi, U Pavan Deepak |
| 148 | Medical Imaging using a Wideband, Conformal, Textile Antenna for Brain Tumor Detection | Athul O Asok, SUKOMAL DEY |
| 146 | Hexagonal Patch Antenna With slots and Defective Ground Structure | Ramana Reddy R., Rakesh Alagala Banyan, Vadde Pravallika, Jada Nageswararao, Shobha Rani Dibbagandla |
| 164 | Design of Wearable Monopole Antenna Sensor for Breast Tumor Detection | TiruGanesh Lanka, Dr. Divya Chaturvedi K.M |
| 187 | A Compact Antenna Sensor for Diagnosis of Glucose Concentration in Blood Samples | Jagadeesh Babu Kamili, KIRAN KUMAR BANDI |

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| 184 | A Non-Invasive Glucose Monitoring Using Double S-Shaped Antenna Band Stop Filter | Neeli Syamala, Bandi Kiran Kumar, K Padma Raju |
| 245 | A WEARABLE TEXTILE ANTENNA FOR HEALTH CARE APPLICATIONS | MEENA KUMARI MULAPARTI, Ratna Kumari U.V., Ram Duvvada Sandeep |
| **Session : A9 : Microstrip Ant** | | **Chairs: V. Tripathy & A. Kumar** |
| **Paper ID** | **Paper Title** | **Authors** |
| 135 | A Moon Shaped Slot Pentagonal Patch Antenna with DGS for High-Gain and X-Band Applications | Ramana Reddy R., EDIGA VENKATESH GOUD, Y Manish Kumar, Andela Vijaya lakshmi |
| 144 | Effect of DGS on Slotted Square Patch Antenna for 5G and LTE Applications | Ramana Reddy R., Jada Nageswararao, MS Chandhana, KONURU SAINATH |
| 136 | Novel Ultra-Miniaturized Wideband Linear-Circular and Linear-Cross Polarizer Based on Modified Electric Dipole Configuration at THz Regime | Sukomal Dey, Mohammad Abdul Shukoor |
| 224 | Bistatic U-Slot Microstrip Patch Antenna for Dual-Band In-Band Full-Duplex | Amit Sikder, Phyo Mg Mg, Amit Kumar, Akhilesh Mohan, |
| 147 | Compact Flexible Textile Antenna for Microwave Imaging of the Human Head | Athul O Asok, SUKOMAL DEY, Priyam Kailash |
| **Session : A10: Special Session : S4 MM Arrays1** | | **Chairs: D. Sim & D. D. Krishna** |
| **Paper ID** | **Paper Title** | **Authors** |
| 94 | Bandwidth Enhancement of Metamaterial Absorber using Resistive Loading for X- and Ku-band Applications | Vinaykumar Kondigari, Sreenath Reddy Thummaluru |
| 112 | A Planar ϕ-Shaped Microwave Antenna Sensor for Glucose Concentration Monitoring | Neeli Syamala, Bandi Kiran Kumar, K Padma raju |
| 115 | Enhancing the gain of Wireless Power Transmission system using Negative Index Metamaterials | Kaarthikeya Karanam, Bipraditya Mukhopadhyay, Nayonika Chakraborty, Gorle Sirisha, Adarsh Singh, Santanu Das |
| 204 | Re-configurable Bi-functional Meta-Surface based Polarization Converter | NEEMA K, Dr. Deepti Das Krishna, Aswin Shiju |
| 257 | Tunable UWB/Narrowband Terahertz Metasurface Absorber Through Controlled Relaxation Time | Naveen Kumar Maurya, Raji Krishna, Sugumaran Subramanian, Jayanta Ghosh |
| 60 | Python-based Graphical User Interface to Extract Electromagnetic Parameters using NRW Method | Ishaan Kedar, SureshKumar TR, Alex Zachariah C, Ashutosh Kedar |
| **Session : A11: SS5 : Metasurface Antennas** | | **Chairs: H. Singh & B. Choudhry** |
| **Paper ID** | **Paper Title** | **Authors** |
| 222 | A Miniaturized Frequency Selective Dual Band Metamaterial Absorber For Mutual Coupling Reduction Between Microstrip Antennas | Soumik Dey, DEBAJIT SARMA, Sukomal Dey |
| 210 | Metasurface with Multifunctional Polarization Transforming for Multi-Band Applications | DHUPAM ARUN KUMAR, Varsha Kavali, V Seshagiri Rao, V Mohan, T Balaji |
| 200 | Circularly Polarized Metasurface-Based Hybrid Dielectric Resonator Antenna for Wireless Applications | Naresh K.Darimireddy, N. Rajasekhar, Runa Kumari |
| 74 | Investigation of Dispersion Control in Planar Rectangular Tape Helix Slow Wave Structure with Double-Positive Metamaterial Assistance | Nameesha Chauhan, Naveen Babu G, Madhur Deo Upadhyay, Jitendra Prajapati, |
| 159 | High gain metamaterial antenna for high data rate mm-wave communication systems | Abhishek Kandwal, Yogeshwar Dutt Sharma |
| 143 | A Compact Triple Band FSS Based Microstrip Antenna for 2.4/4/5.8 GHz Applications | Kalyan Mondal, Sh. Chinglemba Singh, Deepak Kumar Barik, Mohd Azharuddin |

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| 188 | Design and Analysis of a Tri-Band Microstrip Patch Antenna with an Optimized Defected Ground Structure | Bhagya Sri Dwaram, Gayathri Eti, sandeep Atta, Varunteja Immaneni, Satish Chowdary PSR, Modali SSS Srinivas |
| **Session : A12: SS6 MM Arrays2** | | **Chairs: K. Sathish & A. Pandey** |
| **Paper ID** | **Paper Title** | **Authors** |
| 114 | Compact Ultra-Wideband Archimedean Spiral Antenna for Electronic Warfare System | Sujit Behera, Om Ranjan, Balamati Dr Choudhur, Raveendranath U. Nair |
| 63 | Development of Tri-plate Structured Dipole Antenna Array with Incorporated Feed Network for S-Band Radar Application | ANKUR PANDEY, Tarlok Singh, Seema Doongarwal |
| 195 | A 28 GHz FSS Backed SIW Slotted Array Antenna with Ultra Reduced Sidelobes for Ground Surveillance & RADAR Applications | Dipankar Saha, Abhishek Dutta, SOUVIK BAG, Kishan Adikary, SOUMARGO CHAKRABORTY, Masudur Rahaman |
| 33 | Design of a Broadband Stacked Annular Ring Antenna Using Theory of Characteristic Modes | Ashutosh Kedar, Upadrasta V R S S H Teja, Nayan Teja Ayyavaru, Suresh Kumar T. R. |
| 11 | 5G Stacked Substrate Antenna Design and Analysis for 76-81 GHz Automotive Application | Daniel Tetteh Narh, Zhang Yan |
| | | |
| **Session : A13: Compact Ant** | | **Chairs:F. Begum & S. Nelaturi** |
| **Paper ID** | **Paper Title** | **Authors** |
| 249 | UHF Fractal Antenna for Space Applications | Femina Beegum S, Manoj Joseph, Saji Joyas, J. Girija, M. Jayakumar |
| 238 | Meanderline - based Ultraminiature Low-Profile Ultrawideband Antenna for Biomedical Applications | DEBAJIT SARMA, Athul O Asok, SUKOMAL DEY |
| 235 | ANALYSIS OF SLOT AND VIA POSITION EFFECTS ON BANDGAP CHARACTERISTICS IN MUSHROOM ELECTROMAGNETIC BANDGAP STRUCTURES | Gowri Chaduvula, Leela Kumari Balivada |
| 129 | Wrist Band Antenna for Wireless Body Area Network Applications | Dattatreya Gopi, Kota Swetha, Ravikumar palla, P Rajesh, K. Gunasagar, G Jyothie |
| 267 | SAR Analysis of a Wearable Textenna for Health Care Applications | MEENA KUMARI MULAPARTI, Ratna Kumari U.V., Ram Duvvada Sandeep, Dr. KIRAN RAMESH RATHOD |
| 263 | Multi Slot Wearable Patch Antenna for Wireless Applications | Modali SSS Srinivas, Akash Kumar Gupta, BSSV Ramesh Babu, A.V.S. Swathi, P.S.R. Chowdary, T. V. Ramkrishna |
| 234 | AN ULTRA-COMPACT AND CONFORMAL70 GHz CIRCULAR PATCH ANTENNA FOR V-BAND (57-71GHz) 5G MILLIMETER WAVE APPLICATIONS | Manish Sharma, PARMINDER KAUR, Lovish Matta, Rana Gill |

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| 218 | Isolation Enhancement in Fractral Inspired MIMO Antenna Using DGS for 5G Application | Jimit Karangia, Vivek Kumar Pandit, Dhaval Pujara |
| **Session : A14: Misc. Antennas & Methods** | | **Chairs: A. Mahesh & V. Pandit** |
| **Paper ID** | **Paper Title** | **Authors** |
| 223 | Dual-Band Wide-Band Modified CPW-Fed Bow Tie Radial Slot Antenna with Rectangular Stubs | Jainish Bhavsar, Rishil Sanjay Trivedi, Vivek Kumar Pandit |
| 259 | An Open Book Shaped 3-D Patch Antenna Design for C Band Applications | MANASA CHINNAM, Vakula Damera |
| 271 | Design and Prediction Modeling of Millimeter wave Dual Band Antenna using Machine Learning | Smriti Agarwal, ankit pathak, vivek shukla, dheeraj maurya |
| 270 | Design of Low Cost Compact FR4 Microstrip Patch Antenna for 5G, ISM, and X-band Applications | Sivanvitha GV, Ram Duvvada Sandeep |
| 145 | Area efficient sparse-4 diminished-1 modulo 2n + 1 adder | sudhavani yamani, H K raghu vamsi, durga bhavani dama |
| 247 | Retrieving Radiation Pattern of Navigation Antenna from Measurements with Directional Irradiator at Close Distance | Layth Kadhim T. Abuhadma, Yu I Choni |
| **Session : A15: Antennas for Wireless** | | **Chairs: D. Sarkar & A. Gupta** |
| **Paper ID** | **Paper Title** | **Authors** |
| 55 | Compact Rotman Lens on water based substrate for low-frequency applicatons | Raghunathan Agaram, Keerthipriya Sathish, Nagaraj H N, Avinash A Deshpande, Shiv Sethi |
| 10 | A Compact Dual-Band Modified Cylindrical-DRA Based MIMO Antenna for WLAN / X-Band Application | CHOLAVENDAN M, Rajeshkumar Venkatesan |
| 260 | High Gain AMC- Loaded Millimeter-Wave Antenna for 5G New Radio Applications | KANURI NAVEEN, Vakula Damera |
| 96 | A Compact Planar Antenna operating at Lower and Higher 5G bands | Venkat Sai Ram Sabbarapu, Saritha Vanka, Nagurvali Shail, Prasanth Rayudu, Siva Naga Malleswari Nemalikanti |
| 7 | Design of Switched Beam Antenna System using 4x4 Butler Matrix for Wireless Communication Applications | Maniratnam Badavath Naik, Vamshi Sai Yele, Veera Manikumar Devarakonda |
| 22 | A Proposed MIMO Antenna Design for Ultra-Wideband THz Applications | Amin alkabi |
| 242 | Thermal Analysis Assisted Power Handling Capability Enhancement in Probe-fed Microstrip Patch Antennas | Deb Chatterjee, Bidisha Barman, Kalyan Durbhakula |

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| MICROWAVE | | |
|---|---|---|
| **Session : M1: MW Passive circuits 01** | | **Chair:Dr. Somak Bhattacharyya** |
| **Paper ID** | **Paper Title** | **Authors** |
| 12 | Tunable Microstrip Band Pass Filter With Constant Absolute Bandwidth Using BST Varactors and Digitally Tunable Capacitors | Gowrish Basavarajappa, Manoj Kumar |
| 31 | LoRa - Powered Smart Agriculture System for Monitoring and Controlling | Gembali Dinesh, Akash Kumar Gupta, Muttana Nagaseshireddy, Ponnuru Durga Prasanna, Metta Satya Varshini, Kotturu Gowtham |
| 37 | Simplified Biasing AFSS Microwave Absorber | Kumud Ranjan Jha, Umair B. Farooq, Satish Sharma |
| 44 | Compact Water-based Coaxial delay line | Keerthipriya Sathish, Raghunathan Agaram, Nagaraja H N, Avinash Deshpande, Shiv Sethi |
| 48 | Three-Way, Equal-Phase High Power Divider & Combiner with a Novel method of improving Isolation | Pankaj Gupta, Sudip Kumar Murmu, Ashwini U |
| 64 | Model-Based Design for Direction-finding with Amplitude Comparison | Sourabh M Joshi, Shashank Kulkarni |
| **Session : M2: MW Passive Circuits 02** | | |
| **Paper ID** | **Paper Title** | **Authors** |
| 56 | Design of Splash Plate Dielectric Hat Feed for Ka-Band Tracking Radar Applications | Tarlok Singh, Indira Srivastava, Bal Mukund Jha |
| 99 | Design of Amplitude and Phase Controlled Butler Beam Forming Network for X/Ku-band Airborne Synthetic Aperture Radar Applications | VENKATA KISHORE KOTHAPUDI |
| 157 | Advancing Bandpass Filters: Spatio-Temporal Modulation with Coupled Line Sections for Non-Reciprocal Behavior | SUHAIL AFROZ MOHAMMAD, Arun Kumar Gande, Gopi Ram, Prantik Dutta |
| 167 | A 2-6GHz Wideband BPF and A Miniaturised Tri-Band BPF Based on HMSIW | MARY RANI ABRAHAM, Sukomal Dey, Rajneesh Patel |
| 189 | Design and Optimization of SIW Cavity Filter for 14.5 GHz Applications | srujana vahini, Rama Krishna Dasari, rajender D, Yashomathi B |
| 227 | Design and Comparative Study on Planar ELC Resonators for ϵr Analysis | Anilkumar Tirunagari, Narasimha Makireddi, B T P Madhav, Venkateswara Rao Manikonda |
| 15 | A Three-Ray Path Loss Model with Polarization Effects for Indoor Single-Input Single-Output Millimeter-Wave Channel Modelling Applications | Atli Lemma L Gebretsadik, Debdeep Sarkar |

| Session : M3 : MW Passive Circuits 03 | | |
|---|---|---|
| **Paper ID** | **Paper Title** | **Authors** |
| 103 | Design and Analysis of 8-Way RF Feeding Network for C-Band Airborne Synthetic Aperture Radar Applications Using Conventional Technique | VENKATA KISHORE KOTHAPUDI |
| 231 | Design of Power Combiner and Power Divider at Ku Frequency Band Applications | PRADEEP GORRE, Aswini Kumar Samantaray, Sampath Kumar Bandi, Raja Babu Bandi |
| 237 | Analysis of Rotman Lens Geometry for 5G Communication | Deep Kishore Parsediya, Pramod Kumar Singhal |
| 240 | A Dual-Band Bandpass Filter Using Resonators | Kamalaker Yennamalla, Sandhya Rachamalla |
| | | |

| Session : M4: MW Active Crts 01 | | |
|---|---|---|
| **Paper ID** | **Paper Title** | **Authors** |
| 27 | Simple, Economical & Innovative Solution for Obsolescence Management of Active x3 MIC based RF Freq Multiplier | ROHIT LAHIRI, Gaurav Anand, Tulasi Sivakumar Deepala |
| 35 | X-Band Rugged Remotely Monitored Controller Based High Power Amplifier | Narendra S, Kavitha V, Anupama RK |
| 57 | Design of Narrow edge Liquid cooled Solid State Pulsed Power Amplifier in X Band with integrated control system | Anirudh Kumar, Priyanka Pai, Narendra S, Kavitha Vadipilla |
| 107 | High-Speed LO Generation for Advanced Radar and Communication Systems | Hemanth Kumar C, Venkatesh Chidanand Badiger, Madiwalesh M Pattar |
| 132 | Design and Realization of Cascaded S Band Power Amplifier on Hybrid Multilayer PCB | Chandrashekar K, Ashwini U, Vanitha Chavan L, Beeravelly Revanth Reddy |
| 133 | Triple-Band Efficient Rectifier Circuit for Harvesting Ambient RF-Energy | Prashad Lalbabu, Prof. Harish Chandra Mohanta, K. Phanindra Vinay, Dattatreya Gopi |
| | | |

| Session : M5: MW Active Cts & Systems | | |
|---|---|---|
| **Paper ID** | **Paper Title** | **Authors** |
| 36 | A Highly Integrated Design of Dual-band HF Band (13.56MHz) / UHF Band (915MHz) Rectifier for Wireless Power Transfer | Chien-Chin Huang, Ta-Jen Hsu, Hsin Chen |
| 109 | An Efficient Dual-Band Rectifier for GSM/Wi-Fi Bands Operated Microwave Power Transfer Applications | Md Ahsan Halimi, Taguru Anusha, Sumon Modak, Battula Suresh |
| 138 | A Novel Broadband 45º Phase Shifter For Space Applications at Ka – Band | Pragati Swami, Jolie R, Suvarna L, Ramalakshmi N, Dr Senthil Kumar V |
| 155 | Design of Class-F Power Amplifier for Active Antennas Operating over the UWB regime | Shushmasri Ch, Sukomal Dey |
| 206 | Current Trends of Microwave Imaging | B Sridhar, Naresh K. Darimireddy, B.Ram Mohan, N.Raja Sekar, |
| 243 | Design of 3.3GHz-3.8GHz 5Watt High Power Amplifier using GaN HEMT Device | Sangam Bhalke, Ravi GUGULOTHU, Sandeep Chaturvedi, Anant Naik, Ramakrishna Dasari |
| 205 | Compact Narrow-Band Sharp Rejection Bandstop Filter Using U-Shaped Resonator For GNSS Receiver | Ramalakshmi NNagendra Dr Kumar, Vamsi Krishna Velidi, Sivareddy Devireddy, AVG Subramanyam, V Senthil Kumar |

| Session : M6: Freq Selective Surfaces | | |
|---|---|---|
| **Paper ID** | **Paper Title** | **Authors** |
| 25 | A Thin Quad Band FSS Based on Enclosed Cross Slots to Foster Gain in Multiband Applications | PRATYANCHA PRASAD, Ravi Pushkar, Dr. Akhilesh Kumar, |
| 78 | Systematic Analysis of a RF-Choke Enabled 2-bit Reconfigurable Digitally Coded Metasurface for 5G Beam Steering Applications | SNEHA MUKHOPADHYAY, Dipankar Saha, Bhaskar GUPTA, Ayona Chakraborty, SAMIK CHAKRABORTY |
| 130 | A 2-bit Polarization-Insensitive Unit Cell for Triple Band Reconfigurable Intelligent Surface | Amit Sikder, Vimal Kumar, Akhilesh Mohan |
| 183 | A New Defective Ground Structure Inspired High Gain Rectenna System for RF Energy Harvesting in Smart City Applications | Javaid Ahmad Sheikh, Nareen Jan, Aabid Rashid Wani, ahsan halimi, Altaf A Balkhi |
| 239 | Compact Diplexer Using Electromagnetic Bandgap Resonators for C and X Band Radar Systems | Soumik Dey, Aswin Sankar P D, Adarsh S Kumar, Nanda Kishore S, Asish Kumar T, Athul O Asok, DEBAJIT SARMA, Sukomal Dey |
| 256 | Polarization-Insensitive Metasurface-Biosensor for Glycosuria Sensing in Terahertz Regime | Naveen Kumar Maurya, Prakash Pareek, Lokendra Singh, DR.SADHANA KUMARI, NaveJayanta Ghosh |
| 61 | A Multifunctional FSS with dual band shielding in transmission mode and absorption in reflection mode | Priyanka Das, T. Aishwarya |

| Session : M7: Microwave Systems | | |
|---|---|---|
| **Paper ID** | **Paper Title** | **Authors** |
| 58 | RFI Survey in L and S band for APSERa Cosmology Experiment | Keerthipriya Sathish, Mayuri Sathyanarayana Rao, Debdeep Sarkar, Kasturi S, Srivani K S, Girish B S, Somashekar R, Saurabh Singh, Yash Agarwal, Adarsh Kumar Dash, Vishakha S Pandharpure |
| 65 | Simulation and Design for Sub-THz Spectrum TWT Pierce Source with Beam Stabilizer and Magnetic Field Guard | Mohit Ravindra Thakur, Sandra Radhakrishnan, Dr. V. M. Phalle, Anurag Srivastava |
| 69 | Multi-Channel Transmit-Receive Module (MCTRM) Operating In X-Band For Radar Application | devendra Kirad, Varsha G H, Ashwini U, Aditya Chauhan, Rajesh Kumar s |
| 90 | Design and Development of Ku Band Receiver Front End for Radar Application | Pramod C Metri, Putti Ram Swarup, Susarla Hari |
| 122 | RF Front End Combinational Filter for Airborne V/UHF Communication System | Kalyana Rao Bolleddu, JITESH REDDY R |
| | | |

| WIRELESS | | |
|---|---|---|
| Session : W1: MIMO/SISO | | |
| **Paper ID** | **Paper Title** | **Authors** |
| 111 | Design and Analysis of narrowband 28.0GHz n257 and n261 for Short Range Communication with Higher Data Rates | Dr. KANHAIYA SHARMA, Manish Sharma, Ganga Prasad Pandey, Naresh Kumar, Rana Gill |
| 119 | Channel Estimation and Data Detection using Coarse Quantization for Multiuser MIMO OFDM Systems | VAMSIDHAR ANAGANI, SURYA KAVITHA T, THEJESH KUMAR CH, SUNIL KUMAR G, SRIDHAR G.V, Dattatreya Gopi |
| 225 | Cross Slotted Antenna at X Band for Wireless Applications | Srivalli Gundala, Srinivasa Baba V S S N, Sathwika Srigada, Pooja Nenavath, Preethililly K, Sravan Kumar Kumar Talusani |
| 254 | Parking Wireless Assistive System for Smart City Parking Management | Rohit Anand, Jaskiran Sobti, Krishna Kant Dixit, Ahmed Alkayyat, Shivani Pant, Harshpreet Kaur |
| 273 | Adaptive filter Clipper-Based PAPR Reduction Techniques for Massive MIMO-OFDM | B Sridhar, S Sridhar, S RamaKrishna, Naresh K Darimireddy |

| Session : W2: Wireless Comm | | |
|---|---|---|
| **Paper ID** | **Paper Title** | **Authors** |
| 13 | Implementation of Serial FPDP and 10G Ethernet in an FPGA based Real Time Embedded Hardware | ABHINANDAN SARKAR, Jayabrata Chakrabarty, M Sheik Althaf |
| 28 | SOP Minimization in Cooperative Relay-based NOMA Network with Control Jammer | Narasimha Nayak Vankudoth, Rohan D.B.S., Kumar Reddy Dandu , Paipuri Sridhar, Dr.Kiran kumar Gurrala |
| 34 | Improving Secrecy Rate in NOMA Network with Jamming Schemes | Narasimha Nayak Vankudoth, Pranathi Nilakantam, Divya Konduru, Deepthi Basthati |
| 52 | Effect of Realistic Behavior of High- Frequency Antennas in Spectral Efficiency | Aditya Kumar, Meenakshi Rawat |
| 117 | Performance Evaluation of 3GPP-Standard Driven Polar Coded Modulation for 5G | Lopamudra Mazumder, Sandip Ghosal |
| 121 | Multiuser Precoded OFDM System over Nonlinear Power Amplifier | Somak Bhattacharyya, Shivam Kumar, Sanjeev Sharma, Rahul Hindustani |
| 163 | A NOVEL APPROACH FOR SHADOW REMOVEL AND PAVEMENT CRACK DETECTION USING DEEP LEARNING TECHNIQUE | Kusuma Talada, Sreeram Prabhat Sojay, Tekupudi Sangeetha, Vanapalli Rohit, Botta Priyanka |
| 253 | Data Visualization of Weather Conditions in Hilly Regions using Wireless technology | Rohit Anand, Ahmad Alkhayyat, Arti Badhoutiya, Jaskiran Sobti, Rajesh Singh, Raman Kumar |
| 45 | Performance of Multiple Intelligent Reflecting Surfaces in RF and FSO Communication Systems | M D SELVARAJ, Kirubakaran S |

| Session : W3: Wireless Applications | | |
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| **Paper ID** | **Paper Title** | **Authors** |
| 154 | Exploring ML Solutions for Challenges in WSN Development: A Comprehensive Survey | SRUJANA PENNAM, J.Priyanka, K.Gurucharan, M.Rajanbabu |
| 166 | Reconfigurable Ultra-wideband Bandpass Filter with Controlled Band-Notches for Dynamic Operation | Partha P Shome, Taimoor Khan |
| 191 | A Frequency domain 8-bit chipless RFID tag for IOT and Sensor Applications. | Ashish Kumar Girmilla, Priyabrata Sethy, Santanu Kumar Behera |
| 214 | Wireless Energy Harvesting with Rectenna Technology for Wi-Fi Band | sanjeeva reddy, YASHWANTH MULKANURI, POORNA CHANDRA SAI MEKALA, JAYAVARDHAN KURIMINENI, Jayshree Das, RAMESH DESHPANDE |
| 217 | Bayesian Neural Network for Robust Estimation of Signal Source Number in Acoustic Sensor Data | Sandip Ghosal, Samiran Das |
| 236 | Type 2 Diabetes Prediction using Machine Learning: A Game-Changer for Healthcare | Sadhana Singh |

| Session : W4: RF Tags | | |
|---|---|---|
| **Paper ID** | **Paper Title** | **Authors** |
| 9 | Slot Loaded offset feed SIW Cavity Backed Triangular Perturbed Antenna with Improved Bandwidth | Shankaragouda M Patil, Rajeshkumar Venkatesan |
| 21 | Performance Evaluation of Diversity Techniques in Wireless Communication Systems | Chandra Sekhar K, G JAYA SANDEEP SAI, Balijireddy Pujitha, B Appala Naidu, B Sai Dheeraj, A Uday Jagadeesh |
| 142 | TUMOR IDENTIFICATION AND CLASSIFICATION OF MRI BRAIN IMAGES USING DEEP LEARNING OPTIMIZERS (Adam vs Sgdm) | Dummu Malleswara Rao, T L Spandana, D Tejomai, ANAPAGADDI VIJAYA SHYAM, BANTU SUSHANTH |
| 232 | AREA and DELAY Efficient Processing Element Architecture using MBE and Wallace Tree Adder for CNN Accelerators | Roopa R Kothapalli, Vanapalli Leela Rani, Balaji N |
| 255 | Real-Time Beehive Condition Improving Frequency Selection and Bee Welfare Monitoring and Analysis | Rohit Anand |
| 258 | Towards Multi-Sensing Aspects: Robust Passive Chipless RFID Sensor Tag | Rohit Anand, Syed Muzahir Abbas, HAFSA ANAM, Subhas Mukhopadhyay, Shobit Agarwal, Priyanka Dalal |

**Poster Dimensions should be (3 x 3)ft**

| Poster Presentations | |
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| **Paper ID** | **Paper Title** |
| 8 | Employing Efficient Decoding Algorithms to Reduce Bit Error Rates in 5G Applications and Beyond |
| 24 | Equalization of RMC R.4 Signals using MMSE and Zero Forcing Equalization Techniques |
| 40 | Detection of Brain Stroke by using the Novel Adaboost Classifier Algorithm Classifier Algorithm Compared with Multi-Layer Perceptron |
| 41 | A Rectangular Slotted Symmetrical Antenna for WLAN Applications |
| 51 | Analysis of the Multidirectional Single Channel Speech Quality Improvement Using Dyadic Discrete Wavelet Transform in Comparison with Discrete Wavelet Transform for Improved Accuracy |
| 70 | Design of Triangular Shaped Multiple Input Multiple Output Antenna with Defected Substrate for 5G Sub 6 GHz and WLAN Applications |
| 72 | A Broadband Rectifier With High Power Conversion Efficiency and High Power Handling Capability for Microwave Power Transfer Applications |
| 81 | Smart Blind Glasses Using OpenCV Python |
| 91 | Reflector-based Isolation Technique for mm-Wave MIMO Antenna |
| 93 | Real-Time Bitcoin Cost Identification to Improve Efficiency Using Lasso Regression in Comparison with Decision Tree |

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| 97 | Dual-band E-textile Artificial Magnetic Conductor |
| 108 | A Millimeter-Wave Array antenna for Improvement of Radiation Patterns |
| 118 | A Four-Port Super-wideband Monopole Antenna Including Multi-Band Wireless Applications for On-Body Applications with SAR Analysis |
| 124 | Sustanable Design and Analysis of Quasi Snowflake Fractal Antenna for Multiband Wireless Applications |
| 139 | Study of False Alarm Using Sliding Window for Pulse Detection Radar System |
| 149 | A Review on Microwave Imaging for Breast Cancer Detection |
| 160 | Semi-Lumped Cross-Coupled Non-reciprocal Bandpass Filter for 5G Communications |
| 161 | CX Band Semi Disk-Ring Dual Band Shared Aperture Antenna |
| 165 | Bandwidth Enhancement of SIW Cavity Backed Slot Antenna Using High-Order Radiation Modes |
| 174 | Design And Analysis Of Parasitically Coupled DRA Using Parametric Analysis For High Gain Using Aperture Coupling |
| 175 | A Broad Impedance Bandwidth with Dual Sense Triple Band Circular Polarized Printed Antenna |
| 180 | Intelligent Modeling of Circular Microstrip Antenna for RF Energy Harvesting Applications |
| 186 | Design and Development of Compact Microstrip Patch Antenna with DGS for Wireless Applications |
| 192 | Intelligent Torque Control System for Vehicle Safety: A Human-Centric Approach with ESP8266 and Blink IoT Integration |
| 193 | DESIGN AND IMPLEMENTATION TWO ELEMENT MIMO ANTENNA OF METAMATERIAL BASED SUPERSTRATE FOR 5G APPLICATIONS |
| 194 | Design and Optimization of Non-Woven Polyester Made U shaped Flexible Patch Antenna for Early Detection of Thyroid Cancer |
| 203 | Study Of 5G Adaptive Beamforming in Antennas |
| 207 | Aperture Coupled High Gain Metasurface Based Antenna for CP Radiation |
| 215 | Circular Polarized Conformal Array Antenna For Satellite Applications |
| 220 | LTCC Antenna for WLAN Applications |
| 221 | Performance Evaluation of OFDM, FBMC and UFMC for Wireless Communication |
| 250 | A 3-bit Intelligent Reflective Surface with Reconfigurable Phase States, Angular Stability and Polarization Insensitivity for WiFi and IoT applications |
| 83 | AATHREYASAT: A CANSAT MODEL FOR AIR POLLUTION MEASUREMENT IN COMPETITION |
| 100 | Analysis of Uniform Amplitude Butler Beam Forming Network for X/Ku-Band for Air-Borne Synthetic Aperture Radar Applications |
| 125 | Design of a dual-band Monopole antenna for Internet of Things and Sub-6 GHz 5G applications |
| 171 | A Novel Compact Two-Port MIMO Antenna verified with TCM Analysis for 28/38GHz 5G mm-wave Applications |
| 179 | Metasurface-based Frequency Reconfigurable two-port MIMO Antenna for 5G Application |
| 266 | Integrating Gas-Sensitive Layers on Rectangular Patch Antenna for Enhanced Gas Detection |
| 173 | Design and Analysis of Rat-Race Coupler for 5G MIMO Antenna System Applications |
| 50 | X-band Waveform Generator with Calibration feature for Active Phased Array Radar |

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| 268 | 4X4 Planar Antenna Array for  Enhanced Gain |
| 20 | Substrate Integrated Waveguide Fed Dielectric Rod Filtenna |

| **Young Professionals Session : Presentations** | | |
|---|---|---|
| **Name** | **Designation** | **Affiliation** |
| Dr. MD AHSAN HALIMI | Assistant Professor | V R Siddhartha Engineering College, Vijayawada, India |
| Dr. Arvind Kumar | Assistant Professor | VNIT Nagpur |
| Dr.Kunooru Bharath | Engineer | ICOMM TELE LIMITED, Hyderabad |
| Sreenath Reddy Thummaluru | Assistant Professor | IIITDM Kancheepuram |
| Dhupam Arun Kumar | Assistant Professor | Raghu Engineering College |

# STUDENT PAPER CONTEST

| Sr.no | Name | Category | Title |
|---|---|---|---|
| 1 | Mamta Devi Sharma | Ph.D | Design and Performance Evaluation of RF Energy Harvester for Wearable Sensor Nodes |
| 2 | Tilakdhari Singh | Ph.D | A Trapezoidal Ground-based Truncated Rectangular Patch Antenna for Non-Invasive Monitoring of Bone Fracture Healing |
| 3 | Arya K M | Ph.D | A FSS- based Single Layer Reflective Polarizer for X/Ku- Bands |
| 4 | Arun Kumar | Ph.D | Compact Polarization-Insensitive FSS with Angularly Stability in Dual Stop-band Range |
| 5 | Buch Dhyey | Masters | Fabry-Perot Cavity Antenna-based Feed Cluster with Interlaced Feed Apertures for Satellite Communication Applications |
| 6 | Sai Harshini Behara | Bachelors | Sierpinski Gasket Fractal-based Microwave Metamaterial Absorber |
| 7 | Gowri P | Bachelors | EM Design of Beam Steering Antenna using Active Frequency Selective Surfaces at 24 GHz |
| 8 | Pallavi U Sharma | Bachelors | Study on Quantum Radars for Space Applications |
| 9 | Praveen Reddy M | Bachelors | A Novel Metamaterial Absorber for WiBAN and X-Band Applications |

# WAMS 2024 – WIE SCHEDULE
# Date: 1st March,2024 Venue: ROOM 1

| S.NO | SCHEDULE | SPEAKER |
|---|---|---|
| | **INVITED TALKS** | |
| 1 | **11.15AM – 11.45AM** | Dr.Binsu Kailath, IIITDM, Kancheepuram |
| 2 | **11.45AM – 12.15PM** | Dr.Madhumita Chakravarthy, DRDO |
| 3 | **12.15PM – 12.45PM** | Dr.Balamati Chaudhary, CSIR-NAL |
| | | |
| 4 | **12.45PM – 1.15PM** | **PANEL DISCUSSION** |
| | | |
| | **Oral presentation for industry professionals** | |
| 5 | **2PM – 2.15PM** | SANGEETHA BALASUBRAMANIYAM, MATHWORKS |
| 6 | **2.15PM – 2.30PM** | L.PUNITHA, SAMEER-CEM |
| 7 | **2.30PM-2.45PM** | TANMAYI SEEDRALA, ASTRA MICROWAVE |
| 8 | **2.45PM – 3PM** | VISHAKHA PANDHARPURE, RAMAN RESEARCH INSTITUTE |
| | | |
| | **BEST RESEARCH SCHOLAR AWARD** | |
| 9 | **3PM – 3.10PM** | VADLAMUDI ROJA |
| 10 | **3.10PM – 3.20PM** | DIVYA MOKARA |
| 11 | **3.20PM – 3.30PM** | BHAVYA E.V |
| 12 | **3.30PM-3.40PM** | NAMEESHA CHAUHAN |
| 13 | **3.40PM – 3.50PM** | SUJATHA NARESH |