

## *Conferences attended in the past 5 years*

**2016**

### **Tutorial Session**

- A 4 hour tutorial on “Underwater Target Classification” conducted as part of OCEANS’16 MTS/IEEE Monterey on September 19, 2016.

### **Abroad**

1. [Alex Raj S.M., Deepa S. and Supriya M.H. “Underwater Image Enhancement using CLAHE in a Reconfigurable Platform”, IEEE Oceans’16, Monterey, California, September 19-23, 2016.](#)
2. [Sherin B.M. and Supriya M.H, “SOS Based Selection and Parameter Optimization for Underwater Target Classification”, IEEE Oceans’16, Monterey, California, September 19-23, 2016.](#)
3. [Rithu James and Supriya M.H., “Despeckling of Sonar Images Based on a Naive Homogeneity Index”, IEEE Oceans’16, Monterey, California, September 19-23, 2016.](#)
4. A Compact Coplanar 4-Port MIMO Antenna For High-Speed UWB Applications, ICEAA and IEEE APWC 2016, CAIRNS , Australia September, 19-23, 2016

### **In India**

1. [Sajitha. V. R, Nijas C. M, Roshna T. K and P. Mohanan, “Multiresonator Circuit Using a /4 SIR for Chipless RFID Tags”, International Conference on Computing and Communication \(ICCC’16\), Mar Athanasius College of Engineering, Kothamangalam, Kerala, 28-29 January 2016.](#)
2. [Polarized Decagonal Patch Antenna with Polygonal slot for RFID Applications”, Proceedings of 2nd National Conference on Recent Trends in Computing and Information Security, Sree Ayyappa College of Arts and Science, Chengannur, Feb. 2016.](#)
3. [Neeraj K Pushkaran, Libimol V A, Sreekala PS, Sreenath S, C.K Aanandan, Tessamma Thomas, “polyaniline Based Monopole antenna for Broadband Applications”, International Journal of Latest Research in Engineering and technology\(IJLRET\), volume-2-Issue10, October 2016, pp.41-44.](#)
4. [Libimol V.A and Aanandan C.K., “Polarization Independent Multiband Absorber with Enhanced Bandwidth in Ku band”, Conference: International Symposium on Antennas and Propagation- APSYM 2016, At COCHIN, KERALA.](#)
5. [Anju P Mathews, Lindo A.O, and C.K Aanandan, “X-band bandstop filter using Half Mode Substrate Integrated Waveguide with Split Ring Resonators”, Conference: International Symposium on Antennas and Propagation- APSYM 2016, At COCHIN, KERALA.](#)
6. [Libimol V.A and Aanandan C.K, “Checker board HIS with Defected Ground Structure for Positive Reflection Phase Gradient and Wideband RCS Reduction”, Conference: International Conference on Next Generation Intelligent Systems, 2016 \(ICNGIS-2016\).](#)
7. [Akhil P, Abhijith C. R. and Bijoy A. Jose, “Interfacing a Computer Aided Design Tool with a Multi-Function Numerical Machine”, 6th IEEE Intl. Symposium on Embedded](#)

- [computing and system Design \(ISED\), IIT Patna, Dec. 2016.](#)
8. [Akhil P, Abhijith C. R. and Bijoy A. Jose, “An indigenous Computer Aided Design tool for multifunction printers”, 2nd India International Science Festival, National Physical Laboratory, CSIR, New Delhi, Dec. 2016.](#)
  9. [Mohammad Ameen, Sumitha Mathew, Prakash. K. C, Manoj. M, P. Mohanan and K. Vasudevan, “A Two-Layer Circularly Polarized High Antenna for 5.2 GHz WLAN Applications”, Proc. of 2016 International Symposium on Antennas and Propagation, CUSAT, Cochin, India, pp. 45– 48, Dec 2016.](#)
  10. [Prakash. K.C, Mohammad Ameen, Manoj. M, Sumitha Mathew, Anitha. R, Vinesh P. V, Vivek. R, and K. Vasudevan, “A Compact UWB Circularly Polarized Hexagonal Slot Antenna for Wireless Applications”, Proc. of 2016 International Symposium on Antennas and Propagation, CUSAT, Cochin, India, pp. 197 – 200, Dec 2016.](#)
  11. [Sumitha Mathew, Anitha. R, Vinesh P. V, Mohammad Ameen and K. Vasudevan, “Dual Band Corner Truncated Sectoral Patch Antenna with Dual Slits for GPS and WLAN”, Proc. of 2016 International Symposium on Antennas and Propagation, CUSAT, Cochin, India, pp. 113 – 115, Dec 2016](#)
  12. [Prakash K. C, Vinesh. P. V, Sumitha Mathew, Mohammad Ameen and K. Vasudevan, “Novel Circularly Polarised Antenna for Power Harvesting Applications”, International Conference on Signal Processing and Advanced Communication, College of Engineering, Chertala, August 10-11, 2016.](#)
  13. [Sumitha Mathew, Prakash K. C, Mohammad Ameen and K. Vasudevan, “Annular Ring Patch Antenna with Omnidirectional Radiation Pattern for WiMAX Applications” International Conference on Signal Processing and Advanced Communication, College of Engineering, Chertala, August 10-11, 2016.](#)
  14. [Prakash K. C, Vinesh P.V, Vivek. R, Mohammad Ameen and Vasudevan K, “Circularly Polarised Hexadecagonal Patch Antenna for Power Harvesting Applications”, 8th National Conference on VLSI, Signal Processing and Communication, Viswajyothi College of Engineering and Technology, Vazhakulam, Kerala, 21-22 July 2016.](#)
  15. [K.C Prakash, Sumitha Mathew, P.V Vinesh, Mohammad Ameen and K. Vasudevan, “Circularly polarized tridecagonal patch antenna for power harvesting applications”, International Conference on Computing, Communication and Signal Processing, College of Engineering, Karunagap- pally, July 8-9 2016](#)
  16. [Sumitha Mathew, K. C. Prakash, Vivek. R. Kurup and K. Vasudevan, “Reduced Cross Polarization using sectoral Slots in the Ground Plane of a Sectoral Patch Antenna”, International Conference on Computing, Communication and Signal Processing, College of Engineering, Karuna- gappally, July 8-9 2016.](#)
  17. [Rithu James & Supriya M H, “Blind Estimation of Single Look Side Scan Sonar Image from the Observation Model”, Elsevier Procedia Computer Science, Volume 93, 2016, Pages 336–343, September 2016.](#)

**Abroad**

1. [Libimol V. A. & Aanandan C. K, "A novel diode switchable single band metamaterial absorber", PIER 2017, Nov. 19 – 22, 2017, NTU, Singapore.](#)
2. [Paulbert Thomas, Neeraj K. Pushkaran, C. K. Aanandan "Preparation and microwave characterization of novel Polyaniline-graphene composite for antenna applications", PIER 2017, Nov. 19 – 22, 2017, NTU, Singapore.](#)
3. [Cyriac M Odackal, Lindo A. O., Thomaskutty Mathew & C. K. Aanandan "Backscattering Reduction of Dihedral Corner Reflector with Metallodielectric Structure Based on Sierpinski Carpet Array", PIER 2017, Nov. 19 – 22, 2017, NTU, Singapore.](#)
4. [Dibin Mary George, Aanandan C. K. & Paul Young "A Novel 5GHz High Gain Dual Substrate Integrated Waveguide Epsilon near Zero Antenna for WLAN Applications", Asia Pacific Microwave Conference, Nov. 13 – 16, 2017, Malaysia.](#)
5. [Vijeesh P., Annieta Philip and Supriya M. H., "Growth and Morphological study of Potassium Succinate –crystal using slow cooling solution growth method", "2nd International Conference on Applied Crystallography", Dec. 16 – 18, 2017.](#)

**In India**

1. [Ajai J Chemmanam, Salmanul Faris K, Sreelekshmi S, M.Vasu Sairam, and Bijoy A. Jose, "Portable E-Voting decision system", 6th IEEE Intl. Conf. on Computer Comm. and Informatics \(ICCCI\), Coimbatore, Jan., 2017.](#)
2. [Nicky Kattukkaran, Arun George, Mithun Haridas T.P., "Intelligent Accident Detection and Alert System for Emergency Medical Assistance", International Conference on Computer Communication and Informatics \(ICCCI-2017\), Coimbatore, India. 05-07 January, 2017.](#)
3. [Elizabeth George E, Elsa Mary Cyriac, Sreedevi K, and Bijoy A. Jose, "Voice Biometric System Based Personnel Identification", Kerala Technological Congress \(KETCON-2017 Embedded systems and VLSI Technologies\), Kerala, Jan. 2017.](#)
4. [Mohammad Ameen, Sumitha Mathew, Prakash. K. C, Manoj. M, Vinesh.P. V and K. Vasudevan, "Gain Enhancement of a Compact Wideband Antenna Using Hexagonal AMC Ground Plane", proc. of 12th International Conference on Microwaves, Antenna, Propagation and Remote Sensing, Jodhpur, Rajasthan, pp. 79 – 82, Feb 2017.](#)
5. [Sumitha Mathew, Prakash K.C, Vinesh P.V, Mohammad Ameen and K.Vasudevan, "Slotted ground sectoral patch antenna with low cross polarization and enhanced gain", proc. of 12th International Conference on Microwaves, Antenna, Propagation and Remote Sensing, Jodhpur, Rajasthan, pp. 83 – 85, Feb 2017.](#)
6. [Manoj. M, Remsha. M, Mohammad Ameen, Prakash K.C, K.Vasudevan and P. Mohanan "A Novel Dual Band Ultra Compact Artificial Magnetic Conductor-backed Antenna for Wireless Applications", proc. of 12th International Conference on Microwaves, Antenna, Propagation and Remote Sensing, Jodhpur, Rajasthan, pp. 178 – 180, Feb 2017.](#)

7. [Vinesh P. V, Prakash K.C, Mohammad Ameen, Sumitha Mathew, Anitha. R, Vivek. R and K. Vasudevan “Compact Wide band Planar Inverted-F Antenna for LTE Applications”, proc. of 12th International Conference on Microwaves, Antenna, Propagation and Remote Sensing, Jodhpur, Ra- jasthan, pp. 44 – 46, Feb 2017](#)
8. [Mohammad Ameen, Sumitha Mathew, Prakash K. C, Anitha. R, Manoj. M, P. Mohanan and K. Vasudevan, “A Compact 2x2 MIMO Antenna for WLAN and 4G LTE Applications”, proc. of Fourth International Conference on Advanced Computing and Communication Systems, Coimbatore, India, pp. 923 – 926, Jan 2017.](#)
9. [Rithu James and Supriya M. H., “Sonar Image Enhancement using Fractional Masks”, International Symposium on Ocean Technology, SYMPOL 2017, Dec.6 – 8, Kochi.](#)
10. [Sherin B. M. and Supriya M. H., “Parameter Selection and Optimization of an SVM based Underwater Target Classifier using Stochastic Fractal Search”, International Symposium on Ocean Technology, SYMPOL 2017, Dec. 6 – 8, Kochi.](#)
11. [Satheesh Chandran C., Suraj Kamal, Mujeeb A. and Supriya M. H., “An  \$\ell\_1\$  Regularized Underwater Target Classifier based on Sparse Representation with Improved Generalization Performance”, International Symposium on Ocean Technology, SYMPOL 2017, Dec. 6 – 8, Kochi.](#)
12. [Deepa Mathew and Bijoy A. Jose, "Performance Analysis of Virtualized Embedded Systems", 2017 Seventh International Symposium on Embedded Computing and System Design \(ISED\), Dec. 18 – 20, NIT Durgapur.](#)
13. [Ann Varghese, Aji George and James Kurian, “Realization of a Low Cost Low Power Acoustic Modem for Underwater Sensor Nodes,” International Symposium on Ocean Technology, SYMPOL 2017, Dec. 6 – 8, Kochi.](#)

**Abroad**

1. [Manoj M., Remsha M., Vinisha C. V. and Mohanan P., "Stepped Impedance Resonator Based Uniplanar Dipole Antenna with Harmonic Suppression", 2018 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting, July 8 – 13, 2018, Boston USA.](#)
2. [Shameena V. A., Sreejith Nair, Manoj M., and Mohanan P., "Ultra Compact Truncated Ground Monopole Antenna for DCS 1800/PCS 1900 Applications", 2018 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting, July 8 – 13, 2018, Boston USA.](#)
3. [Vivek R., Manoj M., Mohanan P. and Vasudevan K., "Coplanar Waveguide \(CPW\) Fed Compact Dual Band Antenna for wireless Applications", 2018 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting, July 8 – 13, 2018, Boston USA.](#)

**In India**

1. [Uthara E. Prakash, Athira Thankappan. Vishnupriya K. T., Arun A. Balakrishnan, "Density Based Traffic Control System Using Image Processing," in International Conference on Emerging Trends and Innovations in Engineering & Technological Research \(ICETIETR2k18\), Jul. 2018.](#)
2. [Rashida K., Thulasi Devi P.G., Arun A. Balakrishnan, Supriya M. H. "High Resolution Wideband Acoustic Beamforming and Underwater Target Localization using 64Element Linear Hydrophone Array," 2018 8th International Symposium on Embedded Computing and System Design \(ISED\), Dec. 2018, Kochi.](#)
3. [Edwin Jose, Greeshma M., Mithun Haridas T. P., Supriya M. H. "Face Recognition based Surveillance System Using Face Net and MTCNN on Jetson TX2," 2019 5th International Conference on Advanced Computing & Communication Systems \(ICACCS\), Mar. 2019.](#)
4. [Surejya Suresh, Mithun Haridas T. P., Supriya M. H. "Sign Language Recognition System Using Deep Neural Network," 2019 5th International Conference on Advanced Computing & Communication Systems \(ICACCS\), Mar. 2019.](#)
5. [Sruthi Dinesh, Varada P., Deepti Das Krishna, J. M Laheurte, C. K. Aanandan, "Superdirective Planar Parasitic Dipole Array," Proceedings of International Symposium on Antennas and Propagation APSYM 2018, Kochi, Dec. 2018.](#)
6. [Libimol V. A. and Aanandan C. K, "A wideband reflective polarisation rotator," Proceedings of International Symposium on Antennas and Propagation APSYM 2018, Kochi, Dec. 2018.](#)
7. [Cyraic M. Odackal, Thomaskuty Mathew, Lindo A. O., Tony D., Neeraj K. Pushkaran, C. K. Aanandan, "Backscattering reduction using stacked dielectric backed fractal arrays," Proceedings of International Symposium on Antennas and Propagation APSYM 2018, Kochi, Dec. 2018.](#)
8. [Titu K. Samson, Binoy Babu, C. K. Anandan, Rakesh V., Rejoy Rebello, K. Mohanakumar, and P. Mohanan, "Phased array of 619-element Yagi-Uda antenna](#)

- [for Wind Profiler Radar at Cochin University of Science and Technology,” URSI APRASC 2019, New Delhi, March 09 – 15, 2019.](#)
9. [Sarin V. P., Vinesh P. V., Jayakrishnan M. P., C. K. Aanandan, P. Mohanan, and k. Vasudevan, “A dogbone metamaterial based electromagnetic cloaking scheme for microwave applications,” URSI AP-RASC 2019, New Delhi, March 09 – 15, 2019.](#)
  10. [M. Remsha, M. Manoj, V. A. Shameena, P. Mohanan, “Complex Permittivity Measurement using Planar Open Stub Resonator,” 2018 IEEE MTT-S International Microwave and RF Conference \(IMaRC\), Nov. 28 – 30, 2018.](#)
  11. Sarin V. P., Vinesh P. V., Manoj M., Mohanan P., Vasudevan K., “A sub-wavelength metal strip grating based reactive to propagating conversion for radiation enhancement from an electrically small radiator”, Proceedings of International Symposium on Antennas and Propagation APSYM 2018, Kochi, Dec. 2018.
  12. [Mini P. P., Tessamma Thomas, R. Gopikakumari, “Feature Vector Selection of Fusion of MFCC and SMRT Coefficients for SVM Classifier Based Speech Recognition System,” 2018 8th International Symposium on Embedded Computing and System Design \(ISED\), Dec. 2018, Kochi.](#)
  13. [Sleebe K. Divakaran, Laya Mary John, Deepti Das Krishna, Nasimuddin, “Low Cost Compact Rectifier for RF Energy Harvesting,” 2018 IEEE Indian Conference on Antennas and Propagation \(InCAP\), Dec. 2018.](#)
  14. [Revathy R. and P. R. Saseendran Pillai, “Bit Error Rate Performance of Spread Spectrum Communication Systems for Underwater Channels,” Book of Abstracts, 28th Swadeshi Science Congress, pp. 46 – 47, November 2018.](#)
  15. [Aji George, Athul Thomas, James Kurian, "Self-Powered Smart Wireless Irrigation Control System for Large Area Agricultural Farms," Book of Abstracts, 28th Swadeshi Science Congress, pp. 38 – 39, November 2018.](#)
  16. [Midhun M. S., Ann Varghese, James Kurian, "Realization of an SNMP based Robot Controller for Remote Monitoring and Control of Industrial Robotic Arm with Emulation Facility," Book of Abstracts, 28th Swadeshi Science Congress, pp.42 – 43, November 2018.](#)
  17. [Navya Mohan, James Kurian, “An Improved Feature Extraction Technique for Robotic Vision systems: A Hardware Realization Approach,” Book of Abstracts, 28th Swadeshi Science Congress, pp. 43 – 44, November 2018.](#)
  18. [Prasanth P. P., Athul Thomas, James Kurian, “IOT Enabled Remote Liquid Level Monitoring and Control System for Home/Industrial Automation,” Book of Abstracts, 28th Swadeshi Science Congress, pp. 45 – 46, November 2018.](#)

**Abroad**

1. [Sleebi K Divakaran, Deepti Das Krishna ,N Nasimuddin, Jobin K Antony, “Multiport Compact Antenna for RF Energy Harvesting”, 2019 Asia-Pacific Microwave Conference \(APMC\), Singapore, December 2019.](#)
2. [Sruthi Dinesh , Deepti Das Krishna , Jean Marc Laheurte, C.K. Aanandan, “A Superdirective Two-Element Parasitic Dipole Antenna”, 2019 Asia-Pacific Microwave Conference \(APMC\), Singapore, December 2019.](#)

**In India**

1. [Remsha M., Manoj M., Shameena V. A. and P. Mohanan, “SIR based Broadband Dipole Antenna for LTE/ WiMAX/ WLAN Applications,” URSI AP-RASC 2019, New Delhi, March 09 – 15, 2019.](#)
2. [Manoj M., Remsha M., Shameena V. A., Vasudevan K. and Mohanan P., “Artificial Magnetic Conductor-backed Dual Band Antenna for Wireless Applications,” URSI APRASC 2019, New Delhi, March 09 – 15, 2019.](#)
3. [Harikrishnan A. I., S. Mridula, P. Mohanan, “Stub loaded hexagonal open loop band pass filter with improved selectivity,” URSI AP-RASC 2019, New Delhi, March 09 – 15, 2019.](#)
4. [Binthiya Suny Gabriel and Tessamma Thomas, “Breast Cancer Specific miRNA-mRNA binding region analysis using Signal Processing Techniques,” Seventh international conference on advances in signal processing and communication –SPC2018, July 2018.](#)
5. [S. Kala, Jimson Mathew, Babita R Jose, S. Nalesh “Unified Winograd-GEMM Architecture for Accelerating CNN on FPGAs”, 32nd international Conference of VLSI, Design and 18th International Conference of Embedded systems \(VLSID 2019\), Jan5-9, 2019.](#)
6. [Kala.S, Babitha.R.Jose, Jimson Mathew, Nalesh.S, "Efficient hardware acceleration of convolutional neural networks", 32nd IEEE International System -On-Chip Conference \(SOCC\) 2019.](#)
7. [Minu A. Pillai, Alwyn Ghosh, Jestin Joy, Suraj Kamal, Satheesh Chandran C., Arun A. Balakrishnan and Dr. Supriya M. H., “Acoustic target localization using Random Forest Regressor”, Proceedings of International Symposium on Ocean Electronics \(SYMPOL 2019\), December’11-12, 2019.](#)
8. [Rashida K., Suraj Kamal, Satheesh Chandran C., Arun A. Balakrishnan and Dr. Supriya M. H. , “Prototype implementation of spatial filtering using sensor array”, Proceedings of International Symposium on Ocean Electronics \(SYMPOL 2019\), December’11-12, 2019.](#)
9. [Syamily Anilkumar, Dhanya P. R., Sri.Arun A. Balakrishnan and Dr. Supriya M. H., “Algorithm for Underwater Cable Tracking using CLAHE based Enhancement”, Proceedings of International Symposium on Ocean Electronics \(SYMPOL 2019\), December’11-12, 2019.](#)
10. [Dhanya P. R., Stanly Anilkumar, Sri.Arun A. Balakrishnan and Dr. Supriya M. H., “L-CLAHE Intensification Filter\(L-CIF\) Algorithm for Underwater Image Enhancement and Color Restoration”, Proceedings of International Symposium on Ocean Electronics \(SYMPOL 2019\), December’11-12, 2019.](#)

11. [Sanila K. H., Sri.Arun A. Balakrishnan and Dr.Supriya M. H., "Underwater Image Enhancement Using White Balance, USM and CLHE", Proceedings of International Symposium on Ocean Electronics \(SYMPOL 2019\), December'11-12, 2019.](#)
12. [Sravya N., Sri.Arun A. Balakrishnan and Dr. Supriya M. H., "An Efficient Underwater Pipeline Detection System Using Machine Learning Approach", Proceedings of International Symposium on Ocean Electronics \(SYMPOL 2019\), December'11-12, 2019.](#)
13. [Anoop Raj, Sreebi K Divakaran, Deepti Das Krishna and Jobin K Antony, "RF mapping for the feasibility study of RF energy harvesting", Proceedings of the International Conference on Advances in Computing, Communication, Embedded and Secure Systems \(ACCESS' 20\), Adisankara Institute of Engineering and Technology, Kerala, 28 -30 May 2020. - Haven't got](#)

**2020**

### **Abroad**

1. [N. T. Abdulnazer, A. Parambil, A. C. Karuvandi, R. P. Mohammed and J. P. Muhammed, "Modified Open Loop Resonator \(OLR\) Structure for Lowpass Filter Stopband Augmentation", 2020 IEEE Texas Symposium on Wireless and Microwave Circuits and Systems \(WMCS\), Waco, TX, USA, 2020, pp. 1-4, doi: 10.1109/WMCS49442.2020.9172388.](#)

### **In India**

1. [P. V. Anila, M. Remsha, M. Manoj and P. Mohanan, "Planar Asymmetric Single Split Left Handed Metamaterial," 2020 URSI Regional Conference on Radio Science \( URSI-RCRS\), Varanasi, India, 2020, pp. 1-3, doi: 10.23919/URSIRCRS49211.2020.9113611.](#)
2. [V. P. Sarin, P. V. Vinesh, M. Manoj, C. K. Aanandan, P. Mohanan and K. Vasudevan, "Extraordinary transmission analog for enhancing radiation from an electrically small radiator," 2020 URSI Regional Conference on Radio Science \( URSI-RCRS\), Varanasi, India, 2020, pp. 1-4, doi: 10.23919/URSIRCRS49211.2020.9113645.](#)
3. [Jaisy M.A., Aswathi P. and D. D. Krishna, "Direction-Finding System Using Two-Element Time Modulated Array With and Without Modulation," 2020 IEEE International Conference on Electronics, Computing and Communication Technologies \(CONECCT\), Bangalore, India, 2020, pp. 1-4, doi: 10.1109/CONECCT50063.2020.9198594.](#)
4. [A.Zacharias, C. G. Gisha and B. A. Jose, "Chaotic Ring Oscillator Based True Random Number Generator Implementations in FPGA," 2020 24th International Symposium on VLSI Design and Test \(VDAT\), Bhubaneswar, India, 2020, pp. 1-6, doi: 10.1109/VDAT50263.2020.9190505.](#)
5. [E. Pranav, S. Kamal, C. Sathesh Chandran and M. H. Supriya, "Facial Emotion Recognition Using Deep Convolutional Neural Network," 2020 6th International Conference on Advanced Computing and Communication Systems \(ICACCS\), Coimbatore, India, 2020, pp. 317-320, doi: 10.1109/ICACCS48705.2020.9074302](#)