

Department of Electronics and Communication Engineering (1st Shift)

Journal Publications (till july 2021)

S. No	Faculty Name	Title	Journal (ISSN)	Year
1	Dr. Sudesh Pahal	Evaluating Uncertainty of Measurement While Predicting Location in Smart Vehicles	MAPAN	2021
2.	Dr. Sudesh Pahal	Evaluating the Uncertainty of Classification Due to Image Resizing Techniques for Satellite Image Classification)	MAPAN	2021
3	Dr. Shaifali Madan Arora	Robust Digital Watermarking Techniques for Copyright Protection of Digital Data: A Survey	Wireless Personal Communications	2021
4	Dr. Neeru Rathee	Evaluating Uncertainty of Measurement While Predicting Location in Smart Vehicles	MAPAN	2021
5	Dr. Neeru Rathee	Evaluating the Uncertainty of Classification Due to Image Resizing Techniques for Satellite Image Classification)	MAPAN	2021
6	Dr. Richa Gupta	Tunable terahertz circularly polarized dielectric resonator antenna	Optik	2021
7	Dr. Richa Gupta	Circularly Polarized Multiple Layer Dielectric Resonator Antennas.	Progress In Electromagnetics Research C	2021
8	Ms. Deepti Deshwal	How will COVID-19 impact renewable energy in India? Exploring challenges, lessons and emerging opportunities	Energy Research and Social Science	2021
9	Ms. Deepti Deshwal	Performance of a Language Identification System using hybrid features and ANN learning algorithms	Applied Acoustics, Elsevier	2021
10	Ms. Deepti Deshwal	Design and Construction of a Low Loss Substrate Integrated Waveguide (SIW) for S Band and C Band Applications. MAPAN, pp.1-9.	MAPAN	2021
11	Dr. Dinesh Sheoron	Evaluating the Uncertainty of Classification Due to Image Resizing Techniques for Satellite Image Classification)	MAPAN	2021
12	Ms. Poonam Dahiya	Robust Digital Watermarking Techniques for Copyright Protection of Digital Data: A Survey	Wireless Personal Communications	2021
13	Dr. Aman Dahiya	Design and Construction of a Low Loss Substrate Integrated Waveguide (SIW) for S Band and C Band Applications. MAPAN, pp.1-9.	MAPAN	2021

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Journal Publications (2020)

S. No	Faculty Name	Title	Journal (ISSN)	Year
1	Dr. Archana Balyan	Machine learning techniques in machine generation: A review	Journal of Advanced research and dynamic control systems(1943023X)	2019
2	Dr. Puneet Azad	Energy harvesting usingshoe embedded with piezoelectric material	Journal of Electronic Materials (0361-5235)	2020
3	Dr. Puneet Azad	Design and analysis of asynchronized interface circuit for triboelectric energy harvesting	Journal of Electronic Materials (0361-5235)	2020
4	Dr. Puneet Azad	Solar energy harvesting using candle- soot-coatedthermoelectric materials	Global Challenges (2056-6646)	2020
5	Dr. Shaifali Madan Arora	A new approach with enhanced accuracy in zero motion prejudgment for motion estimation in real-time applications	Journal of Real-Time Image Processing (989–1005)	2019
6	Dr. Shaifali Madan Arora	A Highly Secure and Robust Copyright Protection Method for Grayscale Images usingDWT-SVD	International Journal of Recent Technology and Engineering (IJRTE)(2277-3878)	2019
7	Dr. Shaifali Madan Arora	Role of Scaling Factor inRobust Digital Watermarking	International Journal of Innovative Technology and Exploring Engineering (IJITEE)(2078-3075)	2019
8	Dr. Shaifali Madan Arora	A new approach with enhanced accuracy in zero motion prejudgment for motion estimation in real-time applications	Journal of Real-Time Image Processing (989–1005)	2019
9	Dr. Richa Gupta	“Deminiaturized mode control rectangular dielectric resonator antenna	Progress in Electromagnetics Research (1070-4698)	2019
10	Dr. Richa Gupta	Integrated model for designof SWS and beam-wave interaction analysis of a planar THz sheet-beamTWT	Progress in Electromagnetics Research (1070-4698)	2019
11	Ms. Deepti Deshwal	A Language IdentificationSystem using Hybrid Features and Back-Propagation NeuralNetwork	Applied Acoustics, Elsevier (0003-682X)	2020
12	Ms. Deepti Deshwal	Isolated word language identification system with hybrid features from a deepbelief network	International Journal of Communication Systems, Wiley (1099-1131)	2020
13	Ms. Deepshika Yadav	Solar energy harvesting using candle- soot-coatedthermoelectric materials	Global Challenges (2056-6646)	2020
14	Anshul Pareek	Robust and accurate humantracking algorithm for handling occlusion and out of plane rotation	International Journal of Innovative Technology and Exploring Engineering (IJITEE)IJITEE(2278-3075)	2019
15	Anshul Pareek	A hybrid surf-based tracking algorithm with online template generation	International Journal of Innovative Technology and Exploring Engineering (IJITEE) IJITEE(2278-3075)	2019
16	Dr. Aman Dahiya	Design of An Offset PostsK- band Bandpass Filter using Substrate Integrated Waveguide for microwaveApplications	International Journal of Recent Technology and Engineering (IJRTE)) ISSN:2277-3878	2020

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Journal Publications (2019)

S. No	Faculty Name	Title	Journal (ISSN)	Year
1	Dr. Puneet Azad	Triboelectric energy harvester using human biomechanical motion for low power electronics	Bulletin of Material Science, Springer (0250-4707)	2019
2	Dr. Puneet Azad	Temperature controlled voltage regulated boost converter for thermoelectric energy harvesting	IETE Journal of Research, Taylor & Francis(0377-2063)	2019
3	Dr. Puneet Azad	Pyroelectric energy conversion harvesting using Ba _{0.85} Sr _{0.15} Zr _{0.1} Ti _{0.9} O ₃ ceramics and its cementbased composites	Journal of Intelligent Material Systems and Structures (1045-389X)	2019
4	Meena Rao	Uninterrupted Multimedia Transmission using nth Routing Protocol	International Journal of Research in Electronics and Computer Engineering (2393-9028)	2019
5	Deepti Deshwal	Feature Extraction Methods in Language Identification: A Survey	Wireless Personal Communications (0929-6212)	2019
6	Prinkle Talan	I2C Bus Protocol Using Verilog	Journal of Emerging Technologies and Innovative Research (2349-5162)	2019
7	Prinkle Talan	Flight Controller Design For UAV	International Journal of Computer Application (0975-8887)	2019

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Journal Publications (2018)

1	Dr. Puneet Azad	Energy harvesting from human biomechanical energy for health monitoring devices	IETE Journal of Research, Taylor & Francis (0377-2063)	2018
2	Dr. Puneet Azad	Porous Ba 0.85 Ca 0.15 Zr 0.1 Ti 0.9 O 3 Ceramics for Pyroelectric Applications	Journal of Electronic Materials, Springer (0361-5235)	2018
3	Ms. Deepshikha Yadav, Dr. Puneet Azad	A low-cost triboelectric sensor for speed measurement and weight estimation of vehicles	IET Intelligent Transport Systems (1751-956x)	2018
4	Dr. Puneet Azad	Candle Soot Driven Drastic Performance Enhancement in Pyroelectric Energy Conversion	Journal of Electronic Materials, Springer (0361-5235)	2018
5	Dr. Meena Rao	Energy Efficient QoS Aware Hierarchical KF- MAC Routing Protocol in Manet	Wireless Personal Communications, Springer (0929-6212)	2018
6	Dr. Richa Gupta	A Review on Microstrip patch antenna and feeding techniques	International Journal of Information Technology, Springer (2511-2112)	2018
7	Ms. Poonam	A DWT-SVD based Robust Digital Watermarking for Digital Images	Procedia, Computer Science, Elsevier	2018
8	Dr. Neeru Rathee	Facial action unit intensity detection by extracting complimentary information using distance metric Learning	IETE Journal of Research (0377-2063)	2018
9	Dr. Neeru Rathee	An efficient approach for facial action unit intensity detection using distance metric learning based on cosine similarity	Signal, Image and Video Processing (1863-1711)	2018
10	Ms. Aman Kumari	Substrate integrated waveguide (SIW) band pass filter for scientific radar applications	International journal of information Technology, Springer (2511-2104)	2018
11	Ms. Aman Kumari	A Dual-purpose Substrate Integrated Waveguide (SIW) Wideband Band Pass Filter	International Journal of Research in Electronics and Computer Engineering (2393-9028)	2018
12	Dr. Tajinder Singh Arora	A new voltage mode quadrature oscillator using grounded capacitors: an application of CDBA	Engineering Science and Technology, an International Journal – Elsevier (2215-0986)	2018
13	Dr. Shaifali Madan Arora	A DWT-SVD based Robust Digital Watermarking for Digital Images	Procedia, Computer Science, Elsevier	2018
14	Mr. Parveen Kumar	Smart Nodes in LAN by using Wireless Sensor Network	International Journal of Advance Research in Computer Science and Electronics Engineering (2277-9043)	2018

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Journal Publications (2017)

1	Dr. Puneet Azad	Portable triboelectric based wind energy harvester for lowpower application	European Physical JournalPlus, Springer (2190-5444)	2017
2	Dr. Archana Balyan	Confusion Matrix analysis of syllable-like unit extracted from Hindi continuous speech	Indian Journal of Scienceand Technology (0974-6846)	2017
3	Dr. Archana Balyan	Resources for development of Hindi speech synthesis system: An overview	Open Journal of AppliedSciences (2165-3925)	2017
4	Dr. Archana Balyan	Development of phonemedominated database for limited domain T-T-S in Hindi	International Journal of Artificial Intelligence andApplications (0976-2191)	2017
5	Dr. Sudesh Pahal	Effect of Velocity on Handover Parameters inWireless Networks	International Journal ofSystems, Control and Communications	2017
6	Dr. Tajinder Singh Arora	“Realization of Current Mode Universal Filter and a Dual- Mode Single Resistance Controlled Quadrature Oscillator Employing VDCC and Only Grounded Passive Elements	Advances in Electrical and Electronic Engineering,. (1336-1376)	2017
7	Dr. Tajinder Singh Arora	On the realisation of canonic single-resistance- controlled oscillators using third generation current conveyors.	IET Circuits, Devices&Systems (1751-858x)	2017
8	Dr. Meena Rao	Design and Implementation of Trust-based Secure Routing Protocol for MANETs	International Journal ofApplied Engineering Research (0973-4562)	2017
9	Dr. Meena Rao	Energy Efficient AODV for Backup Route Selection in MANETs	Indian Journal of Scienceand Technology (0974-5645)	2017
10	Dr. Shaifali M. Arora	Digital Watermarking: AnIntroduction	International Journal ofApplied Research (2394-5869)	2017
11	Dr. Shaifali Madan Arora	A new fast motion estimation algorithm using adaptive sizediamond pattern search with early search termination	International Journal of Computational Vision and Robotics (1752-9131)	2017
12	Dr. Shaifali Madan Arora	A Novel Hybrid Approach forFast Block Based Motion Estimation.	International Journal of Interactive Multimedia andArtificial Intelligence (1989-1660)	2017
13	Dr. Shaifali Madan Arora	Breast cancer detection techniques using medicalimage processing	Breast Cancer2(2455-4588)	2017
14	Dr. Neeru Rathee	Discriminative analysis of Lip Features for emotion recognition	International Journal of Computational Vision and Robotics (1759-914x)	2017
15	Dr. Neeru Rathee	Contactless and Hassle FreeReal Time Heart Rate Measurement with Facial Video	Journal of Cardiac CriticalCare TSS (0037-55555555)	2017
16	Dr. Neeru Rathee	Modelling Facial Features for Emotion Recognition andSynthesis	IETE Journal of Research(0377-2063)	2017
17	Dr. Neeru Rathee	Facia action unit intensity detection by extracting complimentary informationusing distance metric Learning	IETE Journal of Research(0377-2063)	2017

18	Dr. Richa Gupta	Various Design analysis of Microstrip patch embedded with Cylindrical Dielectric Resonator Antenna"	International journal of Microwave application (2320-2599)	2017
19	Ms. Deepshikha Yadav	Adaptive PID control of balance assisted two wheeled electric unicycle	MSIT Journal of Research Satyam (2319-7897)	2017
20	Poonam	Digital Watermarking: An Introduction	International Journal of Applied Research,	2017
21	Ms. Aman Kumari	A Dual-band Substrate Integrated Waveguide (SIW) Band Pass Filter for scientific Radar applications	International Journal of Research in Electronics and Computer Engineering (2393-9028)	2017
22	Ms. Aman Kumari	A Ka-Band Bandpass filter with Cylindrical Cavity Resonators using a Substrate Integrated Waveguide (SIW)	International Journal of Microwaves Applications (2320 - 2599)	2017
23	Ms. Anshul Pareek	Breast cancer detection techniques using medical image processing	International Journal of Applied Research (2455-4588)	2017
24	Dr. Tajinder Singh Arora	"Realization of Current Mode Universal Filter and a Dual- Mode Single Resistance Controlled Quadrature Oscillator Employing VDCC and Only Grounded Passive Elements	Advances in Electrical and Electronic Engineering..	2017

Department of Electronics and Communication Engineering (1st Shift)
Conference Publications (till July 2021)

S. No	Faculty Name	Title	Conference	Year
1	Shaifali M. Arora	Smart Monitoring & Fault Detection of Sewer system	7th National conference on Advances in Metrology-AdMet-2021	2021
2	Richa Gupta, Deepshikha Yadav, Meena Rao	Design, testing and validation of flyback converter SMPS using IEC 61000-4-11 standard	7th National conference on Advances in Metrology-AdMet-2021	2021
3	Deepshikha Yadav, Richa Gupta	Double-layer secured automatic home access system with gas detector sensor using Raspberry Pi and Python	7th National conference on Advances in Metrology-AdMet-2021	2021
4	Geetanjali Sharma	Chest X-Ray Images Based Automated Detection of Pneumonia Using Transfer Learning and CNN	International Conference on Artificial Intelligence and Applications ((978-981-15-4992-2))	2021

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Conferences Publications (2020)

S.No	FacultyName	Title	Conference Name (ISSN/ISBN)	Year
1	Dr. Archana Balyan	Classifying Breast Cancer Based on Machine Learning	International Conference on Artificial Intelligence and Applications,2020	2020
2	Dr. Sudesh Pahal	Image Colorization with Deep Convolutional Neural Networks	ICACCT 2019	2020
3	Meena Rao	Impact of Routing Protocols and Artificial Intelligence Techniques on adhoc networks in critical scenario	2nd International Conference on Emerging Technologies in Data Mining and Information Security	2020
4	Shaifali M. Arora	Robust Watermarking Schemes for Copyright Protection of Digital Data: A Survey	2nd International Conference on Emerging Technologies in Data Mining and Information Security	2020
5	M. Tholia, N. Rathee	Micro Expression Analysis :A Review	3rd Springer International Conference on Computing Informatics and Networks	2020
6	Chatterjee, Joy, Sushil Chandra, Lalit Mohan Saini, Ronnie V. Daniel, and Neeru Rathee.	Effect of Screen Segmentation on Target Distractor Discrimination Task: an ERP Study.	Communication and Signal Processing (ICCSP)	2020
7	N. Rathee	Epileptic Seizure Detection using Bidimensional Empirical Mode Decomposition and Distance Metric Learning on Scalogram,	SPIN	2020
8	Raut, Samriddhi, and Neeru Rathee	Comparative Study on Machine Learning Classifiers for Epileptic Seizure Detection in Reference to EEG Signals.	In Proceedings of International Conference on Artificial Intelligence and Applications	2020
9	N. Rathee, S. Pahal	Investigation of facial expressions for physiological parameter measurement	International Conference on Advancements in Computing & Management	2020
10	Dr. Richa Gupta	Hybrid Rectangular Dielectric Resonator antenna	International Conference on Artificial Intelligence and Applications,2020	2020
11	D. Deshwal	A Structured Approach towards Robust Database Collection for Language Identification	The International Arab Conference on Information Technology	2020
12	D. Deshwal	Language Identification Performance Evaluation using Spectral Processing	International Conference on IoT, Social, Mobile, Analytics & Cloud in Computational Vision & Bio-Engineering (ISMAC-CVB 2020)	2020

13	D. Deshwal	Design Fundamentals: Iris Waveguide Filters Versus Substrate Integrated Waveguide (SIW) Bandpass Filters	Conference on Artificial Intelligence and Applications, Springer	2020
14	Poonam	Robust Watermarking Schemes for Copyright Protection of Digital Data: A Survey	2nd International Conference on Emerging Technologies in Data Mining and Information Security	2020
15	Aman Dahiya	Design Fundamentals: Iris Waveguide Filters Versus Substrate Integrated Waveguide (SIW) Bandpass Filters	Conference on Artificial Intelligence and Applications, Springer	2020

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Conferences Publications (2019)

S.No	FacultyName	Title	Conference Name (ISSN/ISBN)	Year
1	Dr. Puneet Azad	Large energy harvesting using simultaneous application of pyroelectric and thermoelectric materials	Joint ISAF-ICE-EMF-IWPM-PFM conference -2019 f2cpi2	2019
2	Dr. ArchanaBalyan	Group –delay based segmentation of continuous speech in Hindi	1st International conference on signal processing, VLSI and communication engineering (ICSPVCE-2019)	2019
3	Dr.Sudesh Pahal	Vehicular Communication using Radio Waves: A step towards Smarter vehicles	International Conference RTCAIT 2019, MMEC Mullana	2019
4	Dr.Sudesh Pahal	Miniaturized Microstrip Bandstop Filters with Wider Bandwidth	Elsevier conference ICAEECI 2019, IIT Allahabad.	2019
5	Dr. Richa Gupta	Gain and Bandwidth enhancement techniques for Microstrip antenna in ISM band”	The International Conference on Signal Processing, VLSI and Communication Engineering (ICSPVCE- 2019, Delhi Technological University	2019
6	Deepshikha Yadav	Experimental Analysis of Power Generation for Ultra-Low Power Wireless Sensor Nodes Using Various	International Conference on Signal Processing and Integrated Networks (SPIN- 2019)	2019
7	Anshul Pareek	Evaluation of Feature Detector-Descriptor using RANSAC for visual tracking	SUSCOM 2019 (Amity University Jaipur)	2019
8	Dr. Neeeru Rathee	Satellite image analysis : A Review	International Conference on Electrical, Computer and Communication Technologies (978-1-4799-6085-9.)	2019

9	Dr. Neeeru Rathee	Investigation of facial expressions for physiological parameter measurement	International Conference on Advancements in Computing & Management (2524-7565)	2019
10	Poonam	Performance Evaluation of Robust Watermarking Using DWT-SVD and RDWT-SVD	International Conference on Signal Processing and Integrated Networks (SPIN-2019)	2019

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Conferences Publications (2018)

1	Dr. Archana Balyan	Development of Unit Selection Based Speech Synthesis System (April 21, 2018).	3rd International Elsevier Conference on Internet of Things and Connected Technologies (ICIoTCT),	2018
2	Dr. Sudesh Pahal	Design and Analysis of Double Spurline Band Stop Filters	ICETEST-2018	2018
3	Ms. Deepshikha Yadav	Any Touch: Design and Implementation of a Touch Interface for Bluetooth Enabled Personal	ICPR-2017 International Springer conference held at AIACTR 22-23 Dec 2017	2018
4	Ms. Geetanjali Sharma	Comparative analysis of ECRL and TSEL adiabatic logic style	IEEE international conference on current trends towards converging technologies	2018
5	Ms. Ruchika Kumari and Dr. Archana Balyan	Automatic Syllable – like Segmentation of Hindi Speech based on Energy Convex Hull	IEEE International conference on Computing for Sustainable Global Development-INDIA COM-2018 (978-93-80544-28-1)	2018
6	Dr. Neeru Rathee	Electronic Guitar MIDI Controller for Various Musical Instruments using Charlie Plexing Method	International Conference on Innovations in Computer Science & Engineering	2018
7	Dr. Puneet Azad	Design and implementation of conductor to dielectric lateral sliding TENG mode for low power	International conference of Signals, Machines and Automation (SIGMA 2018) (978-981-13-1819-1)	2018
8	Dr. Sudesh Pahal	Securing Onion Routing against Correlation attack	Springer, Sigma 2018, NSIT Delhi	2018
9	Dr. Sudesh Pahal	Design and Analysis of Bandstop Filters Double Spurline	ICETEST-2018, MMEC, Mullana.	2018

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Conferences Publications (2017)

1	Dr. Puneet Azad	Demonstration of double electrode vertical-sliding triboelectric generator	IEEE International Conference on Computing Communication and Automation (ICCCA2017) (978-1-5090-6471-7)	2017
2	Dr. Puneet Azad	Design and implementation of robust low cost and low power prototype for generic counting system	IEEE International Conference on Computing Communication and Automation (ICCCA2017) (978-1-5090-6471-7)	2017
3	Dr. Puneet Azad	Triboelectric Nanogenerator based on Vertical Contact Separation Mode for Energy Harvesting	IEEE International Conference on Computing Communication and Automation (ICCCA2017) (978-1-5090-6471-7)	2017
4	Dr. Archana Balyan	Creating the Hindi speech corpora for limited domain	IEEE International conference on Computing for Sustainable Global Development- INDIACOM-	2017
5	Dr.Sudesh Pahal	Network selection using automated version facilitated by user preferences	IEEE International conference on Computing for Sustainable Global Development- INDIACOM-2017 (978-93-80544-24-3)	2017
6	Dr.Sudesh Pahal	Implementation of prediction algorithms in MIP handover	Int. conf. ICFESMH 2017,(978-81-934083-0-8)	2017
7	Ms.Ruchika Kumari	Creating the Hindi speech corpora for limited domain	IEEE International conference on Computing for Sustainable Global Development- INDIACOM-2017 (978-93-80544-24-3)	2017
8	Dr. Richa Gupta	Circularly Polarized Cylindrical DRA Antenna using Aperture Coupled Microstrip Line Feed”	4th International Conference on “Computing for Sustainable Global Development	2017
9	Dr. Richa Gupta	Design and Different Feeding Techniques for Rectangular Microstrip Patch Antenna"	National Conference in Advancement in microwave and photonic devices for Electronic Communication System, DRDO sponsored AMPDECS 2017, RTGIT, Ghaziabad (978-93-86156-53-6)	2017
10	Dr. Richa Gupta	An Advancement in Microwave Measurement: Vector Network Analyzer	National Conference in Advancement in microwave and photonic devices for Electronic Communication System, DRDO sponsored AMPDECS 2017, RTGIT, Ghaziabad (978-93-86156-53-6)	2017
11	Ms. Aman Kumari Dahiya	A Review on Substrate Integrated Waveguide (SIW) and its Microstrip Transitions	Advancement in Microwave and Photonic Devices for Electronic communication Systems , March 29-31, 2017	2017

12	Ms. Aman Kumari Dahiya	A Compact E-Shaped Microstrip Bandstop Filter for Wireless Communications	National Conference in Advancement in microwaveand photonic devices for Electronic Communication System, DRDO sponsored AMPDECS 2017, RTGIT, Ghaziabad (978-93-86156-53-6)	2017
13	Ms. Aman Kumari Dahiya	A Low Loss Substrate Integrated Waveguide (SIW) Structure designed for Wireless Communication Systems”	National Conference in Advancement in microwaveand photonic devices for Electronic Communication System, DRDO sponsored AMPDECS 2017, RTGIT, Ghaziabad (978-93-86156-53-6)	2017
14	Ms. Neelam	A Review on Substrate Integrated Waveguide (SIW)and its Microstrip Transitions	National Conference in Advancement in microwaveand photonic devices for Electronic Communication 15System, DRDO sponsoredAMPDECS 2017, RTGIT, Ghaziabad (978-93-86156-53-6)	2017
15	Ms. Deepshikha Yadav	Design and implementation of robust low cost and low power prototype for genericcounting system	IEEE International Conference on ComputingCommunication and Automation (ICCCA2017) (978-1-5090-6471-7)	2017
16	Dr. Tajinder Singh Arora	CCIII-based Current- Mode SRCOs: A Catalogue of Some New Realisations	3rd IEEE International Conference on Advances in Computing, Communication and Automation (ICACCA'17), Tula's Institute, Dehradun 15th-16th September 2017.- Inpress (Conference no. 41348)	2017
17	Ms. Deepti Deshwal	A Review on Substrate Integrated Waveguide (SIW)and its Microstrip Transitions	National Conference in Advancement in microwaveand photonic devices for Electronic Communication System, DRDO sponsored AMPDECS 2017, RTGIT, Ghaziabad (978-93-86156-53-6)	2017
18	Dr. Puneet Azad	Single and double electrode based nanogenerator for enegy harvesting of differentmaterials	IEEE International conference on Computing for Sustainable Global Development- INDIACOM-2017 (978-93-80544-24-3)	2017