Dr. Javaid Ahmad Sheikh

 Associate Professor

Department ***of Electronics and Instrumentation Technology, University of Kashmir, Srinagar- India***

**Public Profile:**

Google Scholar:<https://scholar.google.com/citations?user=ckRR_zIAAAAJ&hl=en>

ScoupsId: <https://www.scopus.com/authid/detail.uri?authorId=35485474600>

Orcid Id: <https://orcid.org/0000-0003-3113-3802>

Research Gate: <https://www.researchgate.net/profile/Javaid-Sheikh-4>

Vidwan: https://[https://vidwan.inflibnet.ac.in//profile/490195](https://vidwan.inflibnet.ac.in/profile/490195).

Innovation Ambassador: <https://ia.mic.gov.in/login>

ScholarGPS® ID: 83174637965857

* *Ph. D (Electronics) from University of Kashmir*
* *M. Phil (Electronics) from University of Kashmir*
* *NET (Electronic Sciences), UGC*
* *SET (Electronic Sciences), UGC*
* *Summer Faculty Research Fellowship (SFRF) IIT Delhi*
* *Regional Mentor of Change (NITI Aayog), Govt. of India*
* *Nodal Officer ATL Sarthi (NITI Aayog), Govt. of India*
* *Appointed as Assistant Professor Higher Education (Didn’t Join)*
* *Appointed as J. E. Telecommunications (Didn’t Join)*
* *Qualified EKT test in Indian Airforce for Flying officers training*
* *Only candidate qualified M. Phil test, 2007 of University of Kashmir.*

**AWARDS and HONORS**

1. **Received** **Best Teacher Award and Citation** from University of Kashmir, Srinagar.
2. **Received Best Paper presenter award** in IEEE INDISCON -2023international conference on Intelligence and Learning Systems at Institute of Engineering & Technology for Women, Mysuru on the paper entitled “Maximization of Achievable Sum Rate and Improvement in Outage Probability in Intelligent Reflecting Surface (IRS) driven NOMA Networks.
3. **Received Best Paper award** in Fifth International Conference on Multimedia, Signal Processing, and Communication Technologies organized by the Department of Electronics Engineering, A.M.U., Aligarh in online mode and co-sponsored by IEEE UP Section and IEEE USA held from 26 November to 27 November 2022 on the paper
4. entitled “High Gain Antenna Design of a Rectenna System for RF Energy Harvesting in Smart City Applications

**Education Qualifications and Achievements**

|  |  |  |
| --- | --- | --- |
|  sheikhjavaid@uok.edu.in  sjavaid\_29ku@yahoo.co.in  +91 9419090554, +918825008944 EDUCATIONPh.D (Electronics)Topic “*Design and Development of CDMA techniques for various Signal Processing and Communication Applications”* M. Phil (Electronics)Topic: “Secure and Reliable data transmission using Microcontrollers and digital logic techniques” NET (Electronics)SET (Electronics) **Vision**: Excel and contribute both academically and research in Engineering and Technology Research to solve a wide range of complex scientific, technological, and social problems.**Mission**: Make University leader in Scientific, Engineering and Technology education to benefit and deal with the needs of the community.**Professional Objective:**To succeed in an institutional ecosystem of development and excellence through a challenging job which provides me job fulfillment with self-development and help me to achieve personal as well as institutional goals academically, research and administratively.

|  |  |
| --- | --- |
|  |  |

 |

entitled “High Gain Antenna Design of a Rectenna System for RF Energy Harvesting in Smart City Applications”.

**4.** **Received Best Paper award** in Fifth International Conference on Multimedia, Signal Processing, and Communication Technologies organized by the Department of Electronics Engineering, A.M.U., Aligarh in online mode and co-sponsored by IEEE UP Section and IEEE USA held from 26 November to 27 November 2022 on the paper entitled “Fractal Antenna with Slotted Partial Ground for Breast Tumour Detection.

**5**. **Received Best Paper award** in Fifth International Conference on Multimedia, Signal Processing, and Communication Technologies organized by the Department of Electronics Engineering, A.M.U., Aligarh in online mode and co-sponsored by IEEE UP Section and IEEE USA held from 26 November to 27 November 2022 on the paper entitled “A new Low Power bi-stable RF-MEMS based energy Harvester for NOMA driven Industrial Internet of Things (IIoT).

**6.** **Received Best Paper award** in International Conference on Evolving Technologies for Computing, Communications and Smart World (ETCCS-2020), Ministry of Electronics and Information Technology, Government of India January 31st to February 01st, 2020 CDAC, Noida for the paper entitled “Compact High Gain 28Ghz Co-Centric Circular director low-cost Antenna for 5G millimetre Wave Communications.

1. **Received Best Research Paper Award** in International Conference on Signals, Machines and Automation (SIGMA 2018) held at Neta Ji Subash Chandra Bose Institute of Technology Delhi for the research paper entitled “Energy Efficient Resource Allocation for LSA Array Based 5G Wireless Communications using Convex Optimization”.
2. **Received Best Research Paper Award** in 12th IEEE International Conference (INDICON -2015) on Electronics, Energy, Environment, Communication, Computers, Control (E3-C3), 17-20 December, 2015, Jamia Millia Islamia, New Delhi India for the research paper entitled “Bit Error Rate (**BER**) improvement of multiple input multiple output orthogonal frequency division multiplexing (MIMO-OFDM) system using bit level scrambling” in the track of Communication Engineering.
3. **Received Best Research Paper Award** in IEEE International Conference on Advances in Electronics, Computers and Communication (ICAECC-2014) 10-11October-2014, at Bangalore India for the Research paper Entitled “Fragility Evaluation of Intermediate Significant Bit Embedding (ISBE) based Digital Image Watermarking Scheme for Content Authentication.
4. **Received Best Research Paper Award** in 12th IEEE International Conference (INDICON -2015) on Electronics, Energy, Environment, Communication, Computers, Control (E3-C3), 17-20 December, 2015, Jamia Millia Islamia, New Delhi India for the research paper entitled “On the Realization of Robust Watermarking System for Medical images” in the track of Signal and Image Processing.
5. **Received Best Algorthimica Award** on paper entitled “A New Reversible Stenographic Technique Based on Pixel Repetition Method (PRM) and Special Data Shifting (SDS)”in 4th IEEE International Conference in Image Information Processing 21-23 Dec, 2017 at Jaypee Institute of Information Technology.
6. **Received Best Presentation Award** in 9th J and K Science Congress on the paper entitled “Performance Evaluation of MIMO under different Modulation Techniques over fading channels” held in University of Kashmir, Srinagar from 1-3, oct.
7. **Received Best University Teacher** in International Award Conference on Research, Analyse, Communicate and Evaluate RACE-2019 Bangkok, International Association of Research and Development Organization (IARDO) at KU Homr, Kasetsat University, Chatuchak, Bangkok, Thailand.

**RESEARCH PROJECTS (Completed and Ongoing)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No** | **Name of the Project** | **Agency** | **Funds** | **Status** |
| **1** | Design, Realization and Implementation of CDMA based Multiuser and Multicarrier Wireless Communications. | UGC | 1.99 lacs | Completed |
| **2** | Design and Development of Energy efficient Millimetre wave Antennas for 5G and IOT Networks.  | ICPS DST | 64.82 lacs | Completed |
| **3** | Design and Implementation of Novel Hybrid Watermarking Algorithms for Copyright Protection of Cultural Artefacts.  | SHRI DST | 57.0 lacs | Completed |
| **4** | Design and Development of Three-Dimensional Flexible Antenna Array for Wearable Electromagnetic Head Imaging system for Stroke Detection.  | JKDST | 10.0 lacs | On-going |
| **5** | Design, Development and Prototyping of Artificial Intelligence driven Metamaterial Wearable Sensors for Innovative Healthcare. | DST | 80.0 lacs | Submitted |

**PATENTS**

1. Granted a Patent in the Govt. of India patent office on Intelligent Pillow System” having no 202311057242.
2. Granted a Patent titled “Twist Ease Clean Tank” with Application No. 403388-001.
3. Granted a patent titled “Semicircular Brain Tumour Detection Antenna” Class: 24 Medical and Laboratory equipment subclass: 01 apparatus and equipment for Doctors, Hospitals and Laboratories” Design number: 6387668, Grant date: 09 September 2024.
4. Granted a patent titled “Smart Antenna systems for improved performance in Wireless Networks” Application No.202441082444 A, publication date 01/11/2024.
5. Granted a patent titled “Electromagnetic Compatibility of Antennas in IoT systems” under application No. 202441086538 A, publication date 15/11/2024.
6. Granted a patent titled “Advanced Frequency Synthesizers for Enhanced Communication System Performance” Application No.202441096716 A, Publication date 13/12/2024.
7. Granted a Patent titled “Metamaterial based Antennas for Enhanced Signal Propagation” Application No.202541010620 A, Publication date 14/02/2025.
8. Granted a patent “Method and System for Predictive analytics using Artificial Intelligence” 202541013262 A Publication date 21/02/2025.

**Patents Filled**

1. Violin Bridge with Adjustable String Height Mechanism
2. Smart Integrated Hygiene System with Real-Time Germ Detection and Automated Cleaning
3. Smart Mattress for Paralyzed Patients Featuring Health Monitoring, Bed Sore Prevention, and Medicine Alert System.

 **PROGRAMES CO-ORDINATED**

1. Co-ordinated Two weeks FDP onApplications of Applied Signal Processing, Communications and Devices for IoT driven e-Health Care (18th April – 27th April 2022), sponsored by Sponsored by Ministry of Electronics and Information and Technology (MeitY), GoI organized by E&ICT Academy, NIT Warangal and University of Kashmir (J&K).
2. Co-ordinated Two weeks FDP on Artificial Intelligence and its Role in Future Communications, Signal Processing and Computing Applications” (Ist May 2023-10th May 2023), sponsored by Sponsored by Ministry of Electronics and Information and Technology (MeitY), GoI organized by E&ICT Academy, NIT Warangal and University of Kashmir (J&K).
3. Co-ordinated Fundamental glossary of Electronics (English-Hindi-Kashmiri) organized by Department of Electronics and I.T. University of Kashmir in collaboration with Commission for Scientific and Technical Terminology (CSTT), Ministry of Education, New Delhi from 16th May-19th May, 2023.
4. Co-ordinated Fundamental glossary of Electronics (English-Hindi-Kashmiri) organized by Department of Electronics and I.T. University of Kashmir in collaboration with Commission for Scientific and Technical Terminology (CSTT), Ministry of Education, New Delhi from 3rd July-7th July, 2023.
5. Co-ordinated Fundamental glossary of Electronics (English-Hindi-Kashmiri) organized by Department of Electronics and I.T. University of Kashmir in collaboration with Commission for Scientific and Technical Terminology (CSTT), Ministry of Education, New Delhi from 21st Aug-25th August, 2023.
6. Co-ordinated Workshop on IPR Awareness program on 8th June, 2023 in collaboration with office of the controller general of Patents, Design and Trade Marks, Ministry of Commerce and Trade Govt. of India under National IP awareness mission (NIPAM).
7. Coordinated One day Workshop on Authorship and Manuscript Writing: Techniques and Practices for Quality Publication as DIQA coordinator on 22th Dec. 2023.
8. Received funds as Coordinator for Two-week hands-on workshop on RF, Communications and Signal Processing sponsored by J&K Council for Science, Technology and Innovation, Govt. of J & K.
9. Co-ordinated Fundamental glossary of Broadcasting (English-Hindi-Kashmiri) organized by Department of Electronics and I.T. University of Kashmir in collaboration with Commission for Scientific and Technical Terminology (CSTT), Ministry of Education, New Delhi from 15th May, 2024- 19th May, 2024.
10. Co-ordinated Fundamental glossary of Broadcasting (English-Hindi-Kashmiri) organized by Department of Electronics and I.T. University of Kashmir in collaboration with Commission for Scientific and Technical Terminology (CSTT), Ministry of Education, New Delhi from 24th June-29th June, 2024.
11. Co-ordinated Two-day seminar on “Kashmiri Technical Terminology and its role in Science and Technology organized by Department of Electronics and I.T. University of Kashmir in collaboration with Commission for Scientific and Technical Terminology (CSTT), Ministry of Education, New Delhi from on 20th June and 21st June, 2024.
12. Coordinated Two- Day Hand on Workshop on Digital Tools for Quality Research: Hands on Workshop for Research Scholars Organized by Directorate of Internal Quality Assurances (DIQA) and Dean Research 27th and 28th Dec. 2024
13. Coordinated Seven Day (07) faculty training programe on AI for future workforce in collaboration with Intel India from 7th and 8th Jan, 2025 and 13th to 17th Jan, 2025.

**ADMINSTRATION POSITIONS**

* Warden Gani Kashmiri Research Scholars Hostel (GKRS INN) 2016-2018
* Warden IKS Hostel
* Warden S.A. Boys Hostels Zakura Campus (2017-Till date)
* Warden Syed Merak Shah Boys Hostel Zakura Campus (2023-till date)
* Coordinator, DIQA University of Kashmir
* Career Councillor, CCPC, University of Kashmir
* Nodal Officer, COVID-19 under DDMA Act, 2005
* Social Media Coordinator, Institutions Innovation Council, MHRD GOI

**MAJOR PUBLICATIONS (Journals and Proceedings)**

|  |  |
| --- | --- |
| **1** | Rasool Khan U, **Sheikh JA**, Junaid A, Ashraf S, Balkhi AA (2025) “A machine learning driven computationally efficient horse shoe shaped antenna design for internet of medical things”. **PLOS ONE** 20(2): e0305203. <https://doi.org/10.1371/> journal.pone.0305203 SCI IF 4.123. |
| **2** | **Sheikh, J.A**., Mansoor, H. & Mustafa, F. A new dynamic cooperation cluster empowered cell-free massive MIMO architecture network for future networks. *Telecommun Syst*, Springer 88, 23 (2025). <https://doi.org/10.1007/s11235-024-01238-y>. SCI IF: 1.7 |
| **3** | Jaipreet Kour Wazir**, Javaid A. Sheikh “**Deep Speak net: Advancing Speech Separation with Deep Learning Techniques” Journal of Communications, JCM 2025 Vol.20(1): 48-53, Doi: 10.12720/jcm.20.1.48-53 (Scoups Indexed), 2024. |
| **4** | Sheikh, J. A., Rehman, R., Bhat, Z. A., Masoodi, I. S., Ashraf, S., & Parah, S. A. (2024). Miniaturized planar defected ground structure antenna enabled with Yagi directors for enhanced gain performance in mm-wave 5G applications. *Journal of Electromagnetic Waves and Applications*, *38*(13), 1419–1434. https://doi.org/10.1080/09205071.2024.237805, Wiley SCI IF 1.438. |
| **5** | Abrar, I., **Sheikh, J.A**. Current trends of Blockchain Technology: Architecture, Applications, Challenges, and Opportunities. *Discov Internet Things* 4, 7 (2024). https://doi.org/10.1007/s43926-024-00058-5 |
| **6** | Bhat, Zahid A., Sheikh, Javaid A., Parah, Shabir A., Udgata, Siba K. and Khan, Shareef-ud-Din. "A single layer wideband filtenna with E-shaped slots for 5G and B5G millimetre-wave communications" *Frequenz*, 2024. <https://doi.org/10.1515/freq-2023-0426>. SCI IF- 0.8 |
| **7** | Iram Abrar, **Javaid A. Sheikh "**Intelligent Blockchain Technology for Disaster Management: Challenges, Research gap and Solutions” Int. J. Blockchains and Cryptocurrencies, Vol. 4, No. 4, 2023 |
| **8** | Issmat Shah Masoodi, **Javid A. Sheikh**, Zahid A. Bhat, Shazia Ashraf and Shabir A. Parah “Co-planar Strip (ACS) fed Side Edge Panel MIMO Antenna for IoT and 5G Applications” International Journal of RF and Microwave Computer-Aided Engineering (**RF-CAD**)” Wiley and Hindwai, Volume 2023, Article ID 4814376, 9 pages, https://doi.org/10.1155/2023/4814376 (SCI IF- **1.7)** https://www.hindawi.com/journals/ijmce/ |
| **9** | Umhara Rasool, **Javaid Ahmad Sheikh**, Shazia Ashraf, Gh. Jeelani Qureshi “Design of a Meta-surface Inspired Circularly Polarized Dual-band Compact Antenna for Bio-medical Applications” Progress in Electromagnetics Research M (PIERM), Vol. 119, 1–12, 202 SCI IF. **6.0** |
| **10** | **Javaid A. Shiekh,** Ishfaq Bashir Sofi, Zahid A. Bhat, Shabir A. Parah, ESEIABS: Energy and spectrum efficient hybrid technique for 5G and beyond networks using interference aware beam selection, ICT Express, Elsevier 2023, ISSN 2405-9595 <https://doi.org/10.1016/j.icte.2023.07.014>. hhttps://www.sciencedirect.com/science/article/pii/S2405959523000930), SCI IF. **5.4.** |
| **11** | Subba Amin, **Javaid A. Sheikh**, Mehboob-ul-Amin, Bilal A. Malik, A deep Reinforcement Learning for energy efficient resource allocation Intelligent Reflecting Surface (IRS) driven Non-Orthogonal Multiple Access Beamforming (NOMA-BF), Physical Communication,2023, 102148,ISSN1874-4907, tps://doi.org/10.1016/j.phycom.2023.102148.(<https://www.sciencedirect.com/science/article/pii/S1874490723001519>) (Elsevier)- SCI IF: **2.379** |
| **12** | Asma N. Naqash, Khurshed A. Shah, Javid **Ahmad Sheikh,** Brijesh Kumbhani, Syed Muzaffar Ali Andrabi “Transport properties of GaAs Co-doped H-passivated low-buckled and high-buckled zigzag silicene nanoribbon two probe devices” Nanosystems: Phys. Chem. Math., 2023, 14 (4), 438–446. http://nanojournal.ifmo.ru DOI 10.17586/2220-8054-2023-14-4-438-446 (SCI IF: 0.92) |
| **13** | Altaf H. Balkhi, **Javaid A. Sheikh**, G.A. Mir, Zahid A. Bhat “A new method of Intelligent Handover management in 5G Communication Networks: IHMCN Journal of Communications Journal of Communications, vol. 18, no. 12, December 2023. |
| **14** | Shazia Ashraf, Javaid A Sheikh , Ayash Ashraf , Umhara Rasool “Comparative Analysis of rectangular framed S-shaped millimetre-wave antenna for different feeding techniques” Materials Today Science Direct [Volume 74, Part 2](https://www.sciencedirect.com/journal/materials-today-proceedings/vol/74/part/P2), 2023, Pages 123-129. |
| **15** | U. R. Khan, J**. A. Sheikh**, A. Junaid, R. Amin, S. Ashraf and S. Ahmed, "Design of a Compact Hybrid Moore’s Fractal Inspired Wearable Antenna for IoT Enabled Bio-Telemetry in Diagnostic Health Monitoring System," in *IEEE Access*, 2022, doi: 10.1109/ACCESS.2022.3219442. (SCI IF- **3.367**). |
| **16** | S. Mehraj, Sabreena, Shabir A. Parah, **Javaid A. Sheikh**  *et al*., "RBWCI: Robust and Blind Watermarking Framework for Cultural Images," in *IEEE Transactions on Consumer Electronics*, 2022, doi: 10.1109/TCE.2022.3217974, **Volume**: 69, **Issue**: 2, **On Page(s)**: 128-139 **Print ISSN**: 0098-3063(SCI IF: [**4.414**](https://ieeexplore.ieee.org/Xplorehelp/Help_pub_journals.html#impact_factor)), **Online ISSN**: 1558-4127. |
| **17** | S. Mehraj *et al*., "Spatial Domain-Based Robust Watermarking Framework for Cultural Images," in *IEEE Access*, vol. 10, pp. 117248-117260, 2022, doi: 10.1109/ACCESS.2022.3217920.  |
| **18** | Samrah Mehraj, Sabreena Mushtaq, Shabir A. Parah, Kaiser J Giri, Javaid A. Sheikh, Amir H Gandomi et.al “ Spatial Domain Based Robust Watermarking Framework for Cultural Images” vol.10,ppn117248-117260, IEEE Access, 2022. |
| **19** | Zahid A. Bhat, **Javaid A. Sheikh,** Sharief D. Khan, Ishfaq Bashir, Shabir A. Parah, “A New Method of Isolation Enhancement of Dual Band Band-Pass Filter Using Composite Mode Co-planar Waveguide Structure for 5G and Body Centric Applications” Iranian Journal of Science and Technology, Transactions of Electrical Engineering <https://doi.org/10.1007/s40998-022-00540-2> 10th Sept. 2022 (SCI IF **1.890).**  |
| **20** | Zahid A. Bhat a, Javaid A. Sheikh, Raqeebur Rehman, Sharief D. Khan, Ishfaq Bashir a Shazia Ashraf “A Survey on Substrate Integrated Waveguide Filters; Design Challenges and Miniaturizing Techniques for the 5G and beyond Applications” International Journal of High Speed Electronics and Systems Vol. 32, No. 1 (2023) 2140006 (22 pages)”  |
| **21** | Ashraf, S., Sheikh, J. A., Rasool, U., & Bhat, Z. A. (2022). A low-profile high gain U slotted wide band micro-strip antenna for 5G applications. *International Journal of Electronics*, *110*(12), 2265–2281. https://doi.org/10.1080/00207217.2022.214083: SCI IF (1.089) |
| **22** | Sumina Sidiq, **Javaid Ahmad Sheikh**, Mustafa F, Malik BA. A new method of hybrid optimization of small cell range development and density for energy efficient ultra-dense networks. Transactions on Emerging Telecommunication Technologies. 2022; e4476. doi: 10.1002/ett.447 (2022). Wiley Publications (SCI IF 3.31). |
| **23** | Shazia Ashraf, **Javaid Ahmad Sheikh**, Zahid Ahmad Bhat “A high gain multi slotted and compact planar micro-strip millimetre wave antenna for 5G networks” Progress in Electromagnetics Research M, Vol. 108, 175{186, 2022 (SCI IF, 6.0) EMW Publishing (2022). |
| **24** | Samrah Mehraj Subreena Mushtaq Shabir A. Parah Kaiser J. Giri, Javaid**A. Sheikh “**A robust watermarking scheme for hybrid attacks on heritage images**”** Journal of Ambient Intelligence and Humanized Computing <https://doi.org/10.1007/s12652-022-04445-0>.  |
| **25** | Sumina Sidiq, **Javaid Ahmad Sheikh**, Farhana Mustafa “New Genetic Algorithm bio-inspired based impartial evaluation of UFMC and GFDM under diverse Window Constraints” https://doi.org/10.1007/s13369-022-06682-z in Arab J Sci Eng Springer (SCI IF 2.334). (2022). |
| **26** | Altaf A. Balkhi, **Javaid A. Sheikh**, Ishfaq B. Sofi, Zahid A. Bhat “Minimization of Handover Decisions with Quality of Service using Fuzzy Logic Prediction Model” Journal of Communications Journal of Communications vol. 18, no. 2, February 2023 (Scoups Indexed) 2022.  |
| **27** | **Sheikh, J.A.,** Mustafa, F. & Sidiq, S. New Hybrid Architecture for Energy Efficient and Low Complex Massive MIMO System. Arab J Sci Eng (2022). https://doi.org/10.1007/s13369-021-06069-6 (SCI IF2.334).  |
| **28** | Raqeebur Rehman,  **Javaid A. Sheikh**, Khurshed A. Shah, Ghulam M. Bhat “A High Gain Inverse Concentric Yagi Director Antenna for 5G Millimeter-wave and Satellite Communication:, Progress in Electromagnetics Research B, Vol. 92, 127–148, 12, April 2021 Electromagnetic Research PIER-B (SCI IF. 6.0). |
| **29** | Zahid A. Bhat, **Javaid A. Sheikh**, Sharief D. Khan, Ishfaq Bashir, and Raqeebur Rehman “A Compact and Reconfigurable Dual-mode Configuration Substrate Integrated Waveguide Dual-band Bandpass Filter for 5G and Millimeter-wave Communications” : Progress in Electromagnetics Research Letters, Electromagnetic Research PIER-Letters Vol. 99, 93–101, 2021, (SCI IF. 6.0). |
| **30** | Umhara Rasool Khan, **Javaid A. Sheikh**, Shahid Bashir, Suhaib Ahmed “Metamaterial inspired wideband on-body antenna design for biomedical Applications” Materials Today: Elsevier. <https://doi.org/10.1016/j.matpr.2021.05.602>, June, 2021. [Volume 80, Part 3](https://www.sciencedirect.com/journal/materials-today-proceedings/vol/80/part/P3), 2023, Pages 1772-1776 (SCI IF. 0.657) |
| **31** | **Javaid A. Sheikh**, Farhana Mustafa, Sumina Sidiq, G. Mohiuddin Bhat “A New Optimization technique in Massive MIMO and LSAS Using hybrid architecture and Channel Estimation algorithm for 5G Networks”: Wireless Personal Communications, Springer (2021) https://doi.org/10.1007/s11277-021-08489- (2021) (SCI, IF: 2.017). |
| **32** | **Javaid Ahmad Sheikh**, Zaffer Iqbal, Mehboob-ul-Amin, and G. Mohiuddin Bhat “A New Bio- Inspired Method of PAPR Reduction in Filter Bank Multi-Carrier Modulation (FBMC) System”, Journal of Engineering Science & Technology <http://jestec.taylors.edu.my>, SCI, Indexed, Volume 17, Issue 2 (April 2022). (ESCI, Indexed).  |
| **33** | **Javaid A. Sheikh**, Farhana Mustafa, Sumina Sidiq “A New Method of Dual-Hop Energy Harvesting and Efficient Power Allocation in IoT Networks Using a Bio-Inspired Based Power Distribution Scheme”, Journal of Communications vol. 17, no. 6, June 2022 (Scoups Indexed). |
| **34** | **Javaid A. Sheikh**, Sumina Sidiq, Farhana Mustafa, Bilal Ahmad Malik PAPR “Minimization of FBMC/OQAM Scheme by Hybrid SLM and PTS using Artificial – Bee - Colony Phase – Optimization”., Arabian Journal of Science and Engineering, Springer https://doi.org/10.1007/s13369-021-05625-4, (2021), 17th April, 2021, SCI, IF (2.334) |
| **35** | Bhat, Zahid A., Sheikh, Javaid A., Khan, Sharief D., Rehman, Raqeebur and Ashraf, Shazia. "Compact and novel coupled line microstrip bandpass filter based on stepped impedance resonators for millimetre-wave communications" *Frequenz*, vol. 75, no. 5-6, 2021, pp. 147-152. <https://doi.org/10.1515/freq-2020-0156> (SCI IF. 0.737). |
| **36** | Sheikh, J.A., Mir, Z.I., Mufti, M.u. *et al.* A New Filter Bank Multicarrier (FBMC) Based Cognitive Radio for 5G Networks Using Optimization Techniques. *Wireless Pers Commun* 112, 1265–1280 (2020). https://doi.org/10.1007/s11277-020-07101-y(SCI, IF= 2.017) |
| **37** | **Javaid A Sheikh**, Mehboob ul Amin, Shabir A Parah, G.M Bhat “Impact of Antenna and Beam selection based Sectored Relay Planning on the performance evaluation of 4G LTE-A tri-sectored cell”, Digital Communication and Networks, Elsevier, 2017, <https://doi.org/10.1016/j.dcan.2017.08.006> (SCI IF 7.5) |
| **38** | N. Hurrah, Shabir A. Parah, N. A. Loan, **J A. Sheikh**. "INDFORG: Industrial Forgery Detection Using Automatic Rotation Angle Detection and Correction," in *IEEE Transactions on Industrial Informatics*, vol. 17, no. 5, pp. 3630-3639, May 2021, doi: 10.1109/TII.2020.3014158. (SCI IF 10.215) |
| **39** | Towards Green Capacity in Massive MIMO based 4G-LTE a Cell Using Beam-Forming Vector Based Sectored Relay Planning; **Javaid A Sheikh,** Mehboob Ul Amin, Shabir A. Parah, G. M Bhat.; Journal of Wireless Personnel Communication. 2017, 97(4), 5767-5781, (SCI IF, 2.047). |
| **40** | Zaffer Iqbal Mir, **Javiad Ahmad Sheikh**, Mehboob ul Amin, G.M. Bhat (2019), Design of Filter Bank Trans multiplexer System for Communication Using Different Modulation Technique. International Journal of Computer Sciences and Engineering (IJCSE). Vol. 7, issue 2 page 5. |
| **41** | Dual watermarking framework for privacy protection and content authentication of multimedia, Nasir N. Hurrah, Shabir A. Parah, Nazir A. Loan, **Javaid A. Sheikh**, Mohammad Elhoseny & Khan Muhammad, (2019), Future Generation Computer Systems, 94, pp. 654-673, (SCI IF, 7.187). |
| **42** | Zaffer Iqbal Mir, **Javaid A. Sheikh**, Mehboob ul Amin, GM Bhat (2019), Design of Filter Bank Transmultiplexer System for Communication Using Different windowing techniques. Journal of Emerging Technologies and Innovative Research (JETIR). Volume 6, Issue 2 |
| **43** | Nasir Hurrah, Shabir A. Parah, **Javaid A. Sheikh**. (2020) “Embedding in medical images: an efficient scheme for authentication and tamper localization,. Multimedia tools and Applications,” doi: <https://link.springer.com/article/10.1007/s11042-020-08988-2> (SCI IF, 2.757) |
| **44** | Nasir N. Hurrah, Shabir A. Parah, Nazir A. Loan, **Javaid A. Sheikh**, F. Trjuman, Elhoseny & Khan Muhammad “Secure data transmission framework for confidentiality in IoTs, , (2019), Ad-Hoc Networks, Elsevier, https://doi.org/10.1016/j.adhoc.2019.101989, (SCI IF, 3.3). |
| **45** | An efficient watermarking technique for tamper detection and localization of medical images, Solihah Gull, Nazir A. Loan, Shabir A. Parah, **Javaid A. Sheikh**, & G. M. Bhat, (2018). Journal of Ambient Intelligence and Humanized Computing, https://doi.org/10.1007/s12652-018-1158-8, (SCI IF, 1.423). |
| **46** | A reversible and secure patient information hiding system for IoT driven e-health, Javaid A. Kaw, Nazir A. Loan, Shabir A. Parah, Khan Muhammad, **Javaid A. Sheikh**, & G. M. Bhat, (2018). International Journal of Information Management, https://doi.org/10.1016/j.ijinfomgt.2018.09.008, (IF, 14.09).(2019) |
| **47** | Blind digital speech watermarking using filter bank multicarrier modulation for 5G and IoT driven networks, **Javaid A. Sheikh**, Sakeena Akhtar, Shabir A. Parah & G. M. Bhat, (2018), International Journal of Speech Technology, 21(3), pp. 715-722. (IF 0.9) |
| **48** | A new method of speech transmission over space time block coded co-operative MIMO–OFDM networks using time and space diversity, **Javaid A. Sheikh**, Sakeena Akhtar, Shabir A. Parah & G. M. Bhat, (2018), International Journal of Speech Technology, 21(1), pp. 65-77. (IF 0.9) |
| **49** | A hybrid Transform Based Secure and Robust Watermarking Technique for Privacy for Medical Applications, Nasir N. Hurrah, Nazir A. Loan, Shabir A. Parah & **Javaid A. Sheikh**, (2018), International journal of advance research in science and engineering (IJARSE), 7(4), 3066-3078. |
| **50** | Analytical analysis and effect of scrambling on inter-relay interference in a tri-sectored LTE-A network, Mehboob Ul Amin, **Javaid A. Sheikh**, Shabir A. Parah & G. M. Bhat, International Journal of Wireless and Mobile Computing, Inderscience (2018), Vol. 14, Issue 2, pp. 149-163 (SCIF 0.7) |
| **51** | A new secure and robust watermarking technique based on logistic map and modification of DC coefficient, Shabir A. Parah, Nazir A. Loan, Asif A. Shah, **Javaid A. Sheikh**, G. M. Bhat, Non-linear Dynamics, 2018, 93(4), 1933-1951, (SCI IF, 3.47) |
| **52** | Electronic Health Record hiding in Images for smart city applications: A computationally efficient and reversible information hiding technique for secure communication, Shabir A. Parah, Jahangir A. Akhoon, Nazir A. Loan, **Javaid A. Sheikh**, Future Generation Computer Systems, Elsevier publications, 2018, https://doi.org/10.1016/j.future.2018.02.023, (SCI IF, 4.78). |
| **53** | Shabir A. Parah, Farhana Ahad, Sheikh, **Javaid A. Sheikh**. et al A New Reversible and high-capacity data hiding technique for E-healthcare applications. Multimedia Tools and Applications, Springer, 76, 3943–3975, 2017 |
| **54** | Secure and Robust Digital Image Watermarking using Coefficient Differencing and Chaotic Encryption, Nazir A. Loan, Shabir A. Parah, **Javaid A. Sheikh**, Ghulam M. Bhat, IEEE Access, 2018, 6(1), 19876-19897, (SCI IF, 3.27) |
| **55** | Resource Allocation of Power in FBMC based 5G Networks using Fuzzy Rule base system and Wavelet Transform, **Javaid A. Sheikh**, Faraha Mustaffa, Arshid Iqbal. G. Mohiuddin Bhat, International Journal of Advance Research in Science and Engineering Vol No.07, Special issue No. (04), March 2018. |
| **56** | A new Responsibility domain-based architecture for 5G Network, **Javaid A. Sheikh**, Faraha Mustaffa, Arshid Iqbal. G. Mohiuddin. International Journal of Advance Research in Science and Engineering Vol No.07, Special issue No. (04), March 2018 |
| **57** | Hiding Electronic Patient Record (EPR) in medical images: A high capacity and computationally efficient technique for e-healthcare applications; Nazir A. Loan, Shabir A. Parah, **Javaid A. Sheikh**, Jahangir A. Akhoon, Ghulam M. Bhat; Journal of Biomedical Informatics 73 (2017) 125–136. (SCI IF, 3.23) |
| **58** | Utilizing neighborhood coefficient correlation: a new image watermarking technique robust to singular and hybrid attacks; Shabir A. Parah, **Javaid A. Sheikh**, Nazir A. Loan, Farhana Ahad, Ghulam M. Bhat; Multidimensional Systems and Signal Processing. 2017, 29(3), 1095-1117, (SCI IF, 1.365). |
| **59** | Hiding clinical information in medical images: A new high capacity and reversible data hiding technique.; Shabir A. Parah, Farhana Ahad, **Javaid A. Sheikh**, G.M. Bhat.; Journal of Biomedical Informatics. 2017, 66, 214-230. (SCI IF, 3.23) |
| **60** | Realization of a new robust and secure watermarking technique using DC coefficient modification in pixel domain and chaotic encryption; Shabir A. Parah, **Javaid A. Sheikh**, Neelanjan Dey, G. Mohiuddin Bhat, Journal of Global Information Management, 26(4), 2017. (SCI IF 1.3).  |
| **61** | Compression and Denoising of Speech Transmission using Daubechies Wavelet Family; **Javaid A. Sheikh**, Sakeena Akhtar, Shabir A. Parah, G. Mohiuddin Bhat. International Journal of Wireless and Mobile Computing, Inderscience Publications, 2017 <https://doi.org/10.1504/IJWMC.2017.085572> (SCI 0.35) |
| **62** | On Exploiting MIMO technology for achieving maximum Detection Probability and mitigating Interference in Tri-Sectored co-operative Cognitive Radio Networks; **Javaid A. Sheikh**, Mehboob ul Amin, Shabir A Parah, Sabba Amin & G.M Bhat, International Journal of Wireless and Mobile Computing, 2017, 13(3), 200-216. |
| **63** | Robust and blind Watermarking technique in DCT domain using Inter- Block Coefficient Differencing, Shabir A. Parah, **Javaid A. Sheikh**, Nazir Loan, G. Mohiuddin Bhat.; Digital Signal Processing, Elsevier. 2016, 53, 11-24, (SCI IF, 2.23) |
| **64** | Reversible and high capacity data hiding technique for E-healthcare applications, Shabir A. Parah, Farhana Ahad, **Javaid A. Sheikh**, Nazir A. Loan, G.M. Bhat.; Multimedia Tools and Applications, Springer. 2016, 76(3), 3943-3975, (SCI IF, 1.54). |
| **65** | Information hiding in edges: A high capacity information hiding technique using hybrid edge detection, Shabir A. Parah, **Javaid A. Sheikh**, Jahangir Ahmad Akhoon, G. M. Bhat.; Multimedia Tools and Applications, Springer. 2016, 77(1), 185-207, (SCI IF, 1.57). |
| **66** | Realization and Robustness Evaluation of a Blind Spatial Domain Watermarking Technique, Shabir A. Parah, **Javaid A. Sheikh**, Umer I. Assad, G. M. Bhat.; International Journal of Electronics. 2016, 4, 659-672, (SCI IF, 0.45). |
| **67** | A new Multiple Input Multiple Output (MIMO) Multicarrier Direct Sequence Code Division Multiple Access (MC-DS-CDMA) System using T x T Spreading with Link Budget Analysis.; **Javaid A. Sheikh**, Shabir A. Parah, G. Mohiuddin Bhat.; International Journal of Wireless and Mobile Computing, 2016, 10 (2), 148-158.  |
| **68** | Nasir Hurrah, Nazir Loan, Shabir A. Parah, **Javaid Ahmad**, Realization of Highly Secure Fragile Watermarking Technique for Authentication of Digital Images, Advanced Research in Electrical and Electronic Engineering, 5 (3), 188-192, 2018. (IF 2.2) |
| **69** | Realization and Performance Evaluation of New Hybrid Speech Compression Technique; **Javaid A. Sheikh**, Sakeena Akhtar. International Journal of Modern Electronics and Communication Engineering (IJMECE) ISSN: 2321-2152 Volume No.-4, Issue No.-3, May, 2016. |
| **70** | Performance Evaluation of Adaptive Noise Canceller Based on Multirate Filter Technique; **Javaid A. Sheikh**, Jaipreet kour, Shabir A. Parah, G. Mohiuddin Bhat “International Journal of Modern Electronics and Communication Engineering (IJMECE) ISSN: 2321-2152 Volume No.-4, Issue No.-4, July, 2016. |
| **71** | Capacity enhancement and performance evaluation in 4G LTE-advanced networks using sectored relaying.; Mehboob Ul Amin, **Javaid A. Sheikh**, Shabir A Parah, G. M Bhat.; Asian Journal of Current and Engineering and Maths, DOI: 10.15520/ajcem.2016.vol 5. iss1.45. pp12-16. |
| **72** | On the Design and Performance Evaluation of Peak to Average Power Ratio (PAPR) using Hybrid Transform Techniques in MIMO-OFDM.; **Javaid Sheikh,** Mehboob ul Amin, Sahir Majeed, Sakeena Akhter, Shabir Parah.; International Journal of Computer Applications, 2016, 141(4), 30-34. SCI IF (0.8) |
| **73** | Multicarrier Modulated Signal for Cognitive Radio with Low Peak-to- Average Power Ratio, **Javaid A. Sheikh**, Mehboob ul Amin, Shabir A Parrah, G. Mohiuddin Bhat International Journal of Applied Mathematics, Electronics and Computers IJAMEC, 2016, 4(4), 113-120 |113. |
| **74** | On the Design and Performance Evaluation of DWT based Compressed Speech Transmission with Convolutional Coding.; **Javaid Sheikh**, Sakeena Akhtar, Mehboob ul Amin, Sahir Majeed, Shabir Parah.; Communications on Applied Electronics (CAE), 2016, 4, no. 9 36-40.  |
| **75** | Information Hiding in Medical Images: A Robust Medical Image Watermarking System for E-Healthcare.; Shabir A. Parah, **Javaid A. Sheikh**, Farhana Ahad, Nazir Loan, G. Mohiuddin Bhat.; Multimedia Tools and Applications, springer, 2015, 76(8), 10599-10633. (SCI IF, 1. 54) |
| **76** | Hiding in encrypted images: A three tier security data hiding system.; Shabir A. Parah, **Javaid A. Sheikh**, G. Mohiuddin Bhat, Multidimensional systems and Signal Processing, Springer, Sept-2015, 28(2), 549-572, (SCI IF, 1.74) |
| **77** | CDMA 2000 for under Water Acoustic Communication System; Bilkies Akram, Amardeep Aingh virk, **Javaid Ahmad Sheikh**. International Journal of Engineering Research Vol.3., Issue.4., 2015 (July-Aug) ISSN: 2321-7758. |
| **78** | Reduction in MIMO-OFDM System for various M-Ary Phase Modulations using Discreet Wavelet Transform, Subba Amin, Anurag Sharma, Mehboob ul Amin, **Javaid A Sheikh**, S.A Parrah, G. M Bhat. Australian Journal of Information Technology and Communication. 2015. Volume III Issue II, ISSN 2203-2843 PP 1-10 |
| **79** | **Javaid A. Sheikh**, Shabir A. Parah, G. Mohiuddin Bhat, A. Mueed Hafiz “Performance Evaluation of Broad Band CDMA Signal using Beam forming Antenna Technology for next Next Generation Communications” International Journal of Informatics and Communication Technology (IJ-ICT) Vol. 4, No. 2, August 2015, pp. 45~55 ISSN: 2252-8776 |
| **80** | Data hiding in scrambled images: A new double layer security data hiding technique. Shabir A. Parah, **Javaid A. Sheikh**, M. Hafiz, G. Mohiuddin Bhat, Computers and Electrical Engineering, Elsevier, Volume 40, Issue 1, January 2014, Pages 70-82 (SCI IF, 1.5) |
| **81** | A secure and robust information hiding technique for covert communication.; Shabir A. Parah, **Javaid A. Sheikh**, G. Mohiuddin Bhat.; International Journal of Electronics, Taylor and Francis, (U.K), Vol. 102, No. 8, 1253–1266, <http://dx.doi.org/10.1080/00207217.2014.954635>. 2014. (SCI IF, 0.75)  |
| **82** | A secure and efficient spatial domain data hiding technique based on pixel adjustment. Shabir A. Parah, **Javaid A. Sheikh**, G. Mohiuddin Bhat.; American Journal of Engineering and Technology Research, US Library Congress. 2014, (USA), Vol. 14, No. 2 pp. 38-44. IF (0.5) |
| **83** | A new method for PAPR reduction in OFDM using Embedded Transform Techniques, Javaid **A. Sheikh**, Shabir A. Parah, G. Mohiuddin Bhat, Mehboob- ul- Amin.; Network Engineering, Elixir Network Engg. 63 (2013) 18504-18511. |
| **84** | Data hiding in color images: A high capacity data hiding technique for covert communication. Shabir A. Parah, **Javaid A. Sheikh**, , G. Mohiuddin Bhat.; Computer Engineering and Intelligent Systems , 2013, Vol 4, No 13, 107-115.  |
| **85** | A New Method of PAPR reduction in MIMO-OFDM System using combination of OSTBC Encoder and TXT Spreading Code Sequence.; **Javaid A. Sheikh**, Shabir A. Parah, G. Mohiuddin Bhat, Mehboob- ul- Amin.; Network Engineering, Elixir Network Engg, 63 (2013) 18518-18521. |
| **86** | Performance evaluation of various MIMO based digital modulation techniques using Minimum mean square error (MMSE) combining; **Javaid A. Sheikh**, Shabir A. Parah, G. Mohiuddin Bhat, Mehboob- ul- Amin.; Network Engineering, Elixir Network Engg. 63 (2013) 18512-18517. |
| **87** | On the realization of a secure, high capacity data embedding technique using joint top-down and down- top embedding approach. Shabir A. Parah, **Javaid A. Sheikh**, G. Mohiuddin Bhat.; Elixir Comp. Sci. & Engg. 49 (2012) 10141-10146 (UK) (IF 0.45) |
| **88** | High capacity data embedding using joint intermediate significant bit and least significant technique.; Shabir A. Parah, **Javaid A. Sheikh**, G. M. Bhat.; International Journal of Information Engineering and Applications, 2012, Vol. 2, no.11, pp. 1-11 (UK) |
| **89** | FPGA implementation of non-linear combinational code generator for image encryption and digital image watermarking; Shabir A. Parah., **Javaid A. Sheikh**, G. M Bhat.; International transactions on Electrical, Electronics and Communication Engineering. Vol. 2. No.5. pp 8- 16- 2012. |
| **90** | On the Realization of Non-Linear Pseudo-Noise Generator for various Signal Processing and Communication Applications.; Shabir A. Parah, **Javaid A. Sheikh**, G. Mohiuddin Bhat.; International Journal of Information Engineering and Applications” Vol.2 no.5, pp 1- 8, 2012. (USA) |
| **91** | On the Design and Realization of Intermediate Frequency Hopping Spread Spectrum for CDMA applications (IFH- SS); Shabir A. Parah, **Javaid A. Sheikh**, G. Mohiuddin Bhat; Elixir Network Engg. 49 (2012) 9999-10003. (UK). (IF 0.45) |
| **92** | Realization and Performance Evaluation of Parallel Interference Cancellation (PIC) based Code Division Multiple Access (CDMA) transmission over Rayleigh Fading Channel.; **Javaid A. Sheikh**, Shabir A. Parah, G. Mohiuddin Bhat.; Elixir Network Engg. 44 (2012) 7531-7535. (UK) (IF 0.45) |
| **93** | On the Realization of Secure and Efficient Data Hiding System using ISB & LSB Technique.; Shabir A. Parah, **Javaid A. Sheikh**, G. Mohiuddin Bhat.; Engineering e-Transaction, Malaysia, (ISSN 1823-6379) Vol. 7, No 2, 2012 |
| **94** | FPGA Implementation of Novel Complex PN Code Generator based data Scrambler and Descrambler.; G. M. Bhat, Shabir Ahmad, Javaid Ahmad.; International journal of Science and Technology, Thailand, 4 (01), 125-135, 2010. |
| **95** | On the Design and Realization of Novel PN Code Based Chaotic Signal Generator for CDMA applications.; G. M. Bhat, Javaid Ahmad, Shabir Ahmad.; Indian Journal of Science and Technology, Coimbatore, Chennai, India, vol. 3. No. 5 (May. 2010) pp 554- 556. |
| **96** | VHDL Modelling and Simulation of Data Scrambler and Descrambler for secure data communication. ; G. M. Bhat, Shabir Ahmad, Javaid Ahmad.; Indian Journal of Science and Technology, Coimbatore, Chennai, India. (Oct 2009), Vol.2 No 10, 41-43. |
| **97** | G. M Bhat, Shabir Ahmad**, Javaid Ahmad**. “Innovative DTMF Remote Control System, ezine, National Science and Technology Board (NSTEDB).;; Journal of Department of Science and Technology, Govt of India. (Technical Publication) oct-2008. |
| **98** | Uzma, Javaid A Sheikh, Shabir A Parah, G. M. Bhat, “A MIMO-OFDM based secure and robust EHR communication system for IOT driven healthcare”, International Journal of Recent technology and Engineering (IJRTE ISSN: 2277-3878, Volume-7, Issue-6, March 2019. |
| **99** | A A Balkhi, G M Mir, J A Sheikh, “Handover Call Management between Two Congested Neighboring Cells using Fuzzy Logic” International Research Journal of Engineering and Technology (IRJET) Volume: 08 Issue: 07 | July 2020, ISSN: 2395-0056.  |
| **100** | Javaid A Sheikh, Uzma, Shabir A Parah, G. M. Bhat, “FBMC (Filter Bank Multicarrier) based MIMO (Multiple Input Multiple Output) System for e-healthcare Applications”, International Journal of Modern Electronics and Communication Engineering (IJMECE). ISSN: 2321- 2152, Volume-7, Issue-3, May 2019 (IF. 0.353).  |
|  |  **CONFRENCE PROCEEDINGS**  |
| **100** | J. K. Wazir, P. Kumar, J. A. Sheikh and K. Nathwani, "Speech Separation in Time-Domain Using Auto-Encoder," *2024 First International Conference for Women in Computing (InCoWoCo)*, Pune, India, 2024, pp. 1-4, doi: 10.1109/InCoWoCo64194.2024.10863419 |
| **101** | **Javaid A. Sheikh**, Sumina Sidiq, Farhana Mustafa, Altaf A “EEIRS: A New Energy Efficient Design of Secure Intelli-gent Reflecting Surface Assisted GFDM-NOMA Systems” in Third International Conference on Information Security, Privacy and Digital Forensics (ICISPD 2024), jointly organized by National Institute of Technology Goa (NIT Goa), National Institute of Technology Surat (NIT Surat) and National Forensic Sciences University (NFSU), during 18-19 October 2024 at National Institute of Technology Goa. |
| **102** | Iram Abrar, **Javaid A. Sheikh** “Intelligent Blockchain Technology for Disaster Management: Challenges and Solutions” One Day Symposium on The Role of Blockchain in Disaster Management June 13, 2023 organized by Computer Society of India, Kolkata Chapter, In Collaboration with The Institution of Electronics and Telecommunication Engineers, Kolkata Centre Birla Institute of Technology, Mesra, Patna Campus.  |
| **103** | R. Jan, J. A. Sheikh, A. A. Khan, J. H. Lone and U. Rasool, "An Improved RF Sensor for Detection of Variation in Different Body Fluids," *2024 IEEE Applied Sensing Conference (APSCON)*, Goa, India, 2024, pp. 1-5, doi: 10.1109/APSCON60364.2024.10465707. |
| **104** | M. Z. Dar, J. A. Sheikh, J. H. Lone, U. Rasool and A. A. Balkhi, "Design and Optimization of a Multiband Reconfigurable Microstrip Patch Antenna for Sub 10-GHz Applications," *2023 10th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)*, Gautam Buddha Nagar, India, 2023, pp. 591-597, doi: 10.1109/UPCON59197.2023.10434860. |
| **105** | N. Nazir, J. A. Sheikh and U. R. Khan, "Interdigitated Wearable Antenna For Brain-Stroke Detection," *2023 10th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)*, Gautam Buddha Nagar, India, 2023, pp. 598-601, doi: 10.1109/UPCON59197.2023.10434513.  |
| **106** | Afshan Nabi Mayer, Shazia Ashraf, **Javaid A. Sheikh**, Altaf A. Balkh “Implementation of SRR Loaded Frequency Reconfigurable Antenna for 5G and IOT wireless Applications” [**10th IEEE UP Section** International Conference on Electrical, Electronics and Computer Engineering](https://cmt3.research.microsoft.com/UPCON2023)1st - 3rd December 2023. |
| **107** | J. H. Lone, U. Rasool, J. A. Sheikh and A. A. Balkhi, "Design of a Semi-Circular Finger Shaped Antenna with Metamaterial Loaded Ground for Brain Tumor Detection and Localization," *2023 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)*, Ahmedabad, India, 2023, pp. 1-6, doi: 10.1109/MAPCON58678.2023.10464170. |
| **108** | S. Mohsina, U. Rasool, J. A. Sheikh and A. A. Balkhi, "A Meandered T-Slot Incorporated Patch Antenna for Microwave Thorax Monitoring," *2023 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)*, Ahmedabad, India, 2023, pp. 1-6, doi: 10.1109/MAPCON58678.2023.10464061 |
| **109** | Aabid Rashid Wani, Nareen Jan, **Javaid A Shiekh**, Jehangir Hameed Lone and Altaf A. Balkhi 5G Dual-Band Slot Antenna for Millimeter Wave Communication Accepted for publication in 3rd International Conference on Computational Electronics for Wireless Communications-2023 (ICCWC-2023), December 22-23, 2023.  |
| **110** | **J. A. Sheikh**, Ashana and F. Khan, "Maximization of Achievable Sum Rate and Improvement in Outage Probability in Intelligent Reflecting Surface (IRS) Driven NOMA Networks," *2023 IEEE 4th Annual Flagship India Council International Subsections Conference (INDISCON)*, Mysore, India, 2023, pp. 1-5, doi: 10.1109/INDISCON58499.2023.10269869. |
| **111** | B. Ali, U. R. Khan, J. A. Sheikh, A. Ara and S. Javeed, "A New Circular Slot Based Dual Frequency Band Reconfigurable Antenna for 5G and Wi-Fi Applications," 2022 5th International Conference on Multimedia, Signal Processing and Communication Technologies (IMPACT), Aligarh, India, 2022, pp. 1-6, doi: 10.1109/IMPACT55510.2022.10029085. |
| **112** | S. Amin, J. A. Sheikh, M. -u. Amin and B. A. Malik, "Resource Allocation in CR networks using Beamforming Optimization," 2022 5th International Conference on Multimedia, Signal Processing and Communication Technologies (IMPACT), Aligarh, India, 2022, pp. 1-4, doi: 10.1109/IMPACT55510.2022.10029174. |
| **113** | S. Javeed, U. R. Khan, J. A. Sheikh, A. Ara and B. Ali, "Metamaterial Inspired Antenna for Biomedical Applications," 2022 5th International Conference on Multimedia, Signal Processing and Communication Technologies (IMPACT), Aligarh, India, 2022, pp. 1-5, doi: 10.1109/IMPACT55510.2022.10029178. |
| **114** | N. Jan, S. Ashraf and J. A. Sheikh, "High Gain Antenna Design of a Rectenna System for RF Energy Harvesting in Smart City Applications," 2022 5th International Conference on Multimedia, Signal Processing and Communication Technologies (IMPACT), Aligarh, India, 2022, pp. 1-5, doi: 10.1109/IMPACT55510.2022.10029229. |
| **115** | J. A. Sheikh, F. T. Beigh and N. T. Beigh, "A New Low Power Bi-Stable RF-MEMS Based Energy Harvester for NOMA Driven Industrial Internet of Things (IIoT)," 2022 5th International Conference on Multimedia, Signal Processing and Communication Technologies (IMPACT), Aligarh, India, 2022, pp. 1-8, doi: 10.1109/IMPACT55510.2022.10029123. |
| **116** | A. Ara, J. A. Sheikh, U. R. Khan, B. Ali and S. Javeed, "Fractal Antenna Design with Slotted Partial Ground for Breast Tumor Detection," 2022 5th International Conference on Multimedia, Signal Processing and Communication Technologies (IMPACT), Aligarh, India, 2022, pp. 1-6, doi: 10.1109/IMPACT55510.2022.10029036. |
| **117** | Subreena, Shabir A. Parah, **Javaid Ahmad Sheikh** “Cultural Heritage Copyright Protection: A blind and robust watermarking technique for heritage images” 7 th International Conference for Convergence in Technology (I2CT) 7 th – 9 th April 2022 IEEE Bombay Section. |
| **118** | Shazia Ashraf, **Javaid A. Sheikh** “Comparative analysis of rectangular framed S-shaped millimeter-wave antenna for different feeding techniques” 2nd International Conference on Advances in Material Science, Communication and Microelectronics (ICAMCM-2022) (June 17-18, 2022) Jaipur Engineering College & Research Centre, Jaipur Department of Electronics and Communication Engineering. |
| **119** | Altaf A. Balkhi, Javaid Ahmad sheikh, Zahid Ahmad Bhat, Ishfaq Bashir “Mobile Traffic Management in Congested Cells using Fuzzy Logic in “3rd International Conference on Emerging trends in Multidisciplinary research “ETMDR-2022” organized by Advanced studies and research Centre, Poornima University, Jaipur. |
| **120** | Altaf A. Balkhi, **Javaid A. Sheikh**, G. M. Mir, Zahid A. Bhat “Efficient Call Management between Congested Neighboring Cells using Fuzzy Logic IRA-2022: Second International Conference on “Innovation in IoT, Robotics, and Automation 2022" Moradabad, India, January 28-29, 2022. |
| **121** | F. T. Beigh, J. A. Sheikh and N. T. Beigh, "Optimized MEMS Circular Membrane Resonators for Mechanical Energy Harvesting and Sensing for IoT Application," *2020 5th IEEE International Conference on Emerging Electronics (ICEE)*, 2020, pp. 1-4, doi: 10.1109/ICEE50728.2020.9777018 |
| **122** | **Javaid A. Sheikh,** Raqeeb ur Rehman “A Novel High Gain Two Port Antenna for Licensed and Unlicensed Millimeter-Wave Communication, Chennai., *IEEE 2020 International Conference on Emerging Trends in Information Technology and Engineering), (ic-ETITE),* 24-25 Feb., 2020.  |
| **123** | Compact High Gain 28 GHz Concentric Circular director low cost antenna for 5G Millimetre-Wave Communication, Raqeeb-ul- Rehman, **Javaid A. Sheikh,** Zahid A. Bhat, *Springer (Evolving Technologies in Computing, Communications and Smart world), (ETCCS)*, 31 Jan-01 Feb., 2020. |
| **124** | Compact Microstrip Bandpass Filter using Stepped-Impedance Resonators and Stepped-Lumped Resonators for 5G Wi-Fi and WLAN Applications Zahid A. Bhat, **Javaid A. Sheikh**, Raqeebur Rehman, Shabir A. Parrah, Mehboob Ul Amin, Sharief D. Khan, *IEEE Conference on International Conference on Power Electronics, Control and Automation, ICPECA,* 201916-17 Nov, 2019. |
| **125** | BMC and UFMC: The Modulation Techniques for 5G, Sumina Sidiq, **Javaid A. Sheikh** Farhana Mustafa, *IEEE Conference on International Conference on Power Electronics, Control and Automation, ICPECA,* 201916-17 Nov, 2019. |
| **126** | Various Technologies used in 5G Communication and the Issues Related to it, Farhana Mustafa, **Javaid A. Sheikh,** Sumina Sidiq, *IEEE Conference on International Conference on Power Electronics, Control and Automation, ICPECA,* 201916-17 Nov, 2019.  |
| **127** | Design and Simulation of new Substrate Integrated Waveguide (SIW) Bandpass filters for mm- Wave Applications, **Javaid A. Sheikh**, Zeeshan Ahmad Proceedings of *International Conference on Electrical, Communications, Electronics, Instrumentation and Computing*, Sri Chandrashekar saraswati Viswa, Tamil Nadu India 30-31 Jan 2019 |
| **128** | Design Butler at mm- Wave frequencies for future Applications, **Javaid A. Sheikh**, Sakib Sofi Proceedings of *International Conference on Electrical, Communications, Electronics, Instrumentation and Computing* Sri Chandrashekar saraswati Viswa Tamil Nadu India 30-31 Jan 2019 |
| **129** | A new framework to secure electronic patient record for e-healthcare applications in India, Shabir A. Parah, **Javaid A. Sheikh**, G. M. Bhat*, In proceedings of International conf. Engaging India and Canada: Challenges of sustainable development goals*. 8-9 June 2018, pp. 137-138. |
| **130** | A hybrid Transform Based Secure and Robust Watermarking Technique for Privacy for Medical Applications, Nasir N. Hurrah, Nazir A. Loan, Shabir A. Parah & **Javaid A. Sheikh**, (2018), *In 1st international conference on recent developments in science, humanities & Management-2018 (ICRDSHM-18),* 17-18 April 2018.  |
| **131** | Zaffer Iqbal Mir, **Javiad Ahmad Sheikh**, Mehboob ul Amin, G.M. Bhat A Review on Multirate Filters to Polyphase Networks. *International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC).* Vol. 978-1-5386-4303-7 29th January2018 |
| **132** | Nasir N. Hurrah, Nazir A. Loan, Shabir A. Parah and **Javaid A. Sheikh**, "A Transform Domain Based Robust Color Image Watermarking Scheme for Single and Dual Attacks", *2017 Fourth International Conference on Image Information Processing (ICIIP)*, vol. 00, no., pp. 1-5. ***IEEE***, 2017, doi:10.1109/ICIIP.2017.7414710. |
| **133** | Nazir A. Loan, **Nasir N. Hurrah,** Shabir A. Parah and **Javaid A. Sheikh**, "High Capacity Reversible Steganographic Technique based on Image Resizing and Pixel Permutation", *2017 Fourth International Conference on Image Information Processing (ICIIP)*, pp. 1-6. **IEEE,** 2017, doi:10.1109/ICIIP.2017.7414709  |
| **134** | Speech Watermarking in Compressed Domain; A Detailed Performance Analysis over Fading Channels.; Sakeena Akhtar, **Javaid A. Sheikh**, Shabir A. Parah, Safeena-al-Nisa.; *IEEE International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC).* 28-29 Jan. 2018. (in press) |
| **135** | Power Efficient Medical Images Transmission for e-Healthcare Systems. Uzma, **Javaid A. Sheikh**, Shabir A. Parah, G. M. Bhat.”. *International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC)* 28th & 29th January 2018, Vellore Tamil Nadu. (in press). |
| **136** | A transform domain based robust color image watermarking scheme for single and dual attacks.; Nasir N. Hurrah, Nazir A. Loan, Shabir A. Parah, **Javaid A. Sheikh.** ; 2017 *IEEE Fourth International Conference on Image Information Processing (ICIIP),* pp-2-25, 21-23 Dec. 2017.  |
| **137** | [A new reversible steganographic technique based on pixel repetition method (PRM) and special data shifting (SDS)](https://ieeexplore.ieee.org/document/8313710/). ; Javaid A. Kaw, Shabir A. Parah, **Javaid A. Sheikh**, G. Mohiuddin Bhat. ; 2017 *IEEE Fourth International Conference on Image Information Processing (ICIIP)*, pp. 199-204, 21-23 Dec. 2017.  |
| **138** | [High capacity reversible stenographic technique based on image resizing and pixel permutation](https://ieeexplore.ieee.org/document/8313751/). ; Nazir A. Loan, Nasir N. Hurrah, Shabir A. Parah, **Javaid A. Sheikh**. ; 2017 *IEEE Fourth International Conference on Image Information Processing (ICIIP),* pp. 416-421, 21-23 Dec. 2017. |
| **139** | M. Showkat **Javaid. A. Sheikh** and A. I. Khan, "A New Beamforming Technique in 5G Environment for Reliable Transmission," *2018 4th International Conference on Computing Communication and Automation (ICCCA)*, 2018, pp. 1-5, doi: 10.1109/CCAA.2018.8777661. |
| **140** | Nasir N. Hurrah, Nazir A. Loan, Shabir A. Parah, **Javaid A. Sheikh**, “Realization of Highly Secure Fragile Watermarking Technique for Authentication of Digital Images” *in Int. Conf. on Recent Trends in Engg., Tech., Agriculture, Applied Sciences, Humanities and Business Management for Sustainable Development (ETAHBS-2018), NIT Srinagar, J&K, India, 20-21 Oct.,* 20**18**  |
| **141** | Nasir N. Hurrah, Nazir A. Loan, Shabir A. Parah, **Javaid A. Sheikh**, “Realization of Highly Accurate Tamper Localization Framework for Digital Image Watermarking Applications” *in Proc. Of 5th Int. Conf. on Recent Trends & Advancements in Engg. Tech., SMVDU Katra, J&K, India, 25-26 Oct, 2018.*  |
| **142** | Energy efficient image transmission through orthogonal frequency division multiplexing (OFDM) based multiple input multiple output (MIMO) systems. ; Uzma, **Javaid A. Sheikh**, Shabir A. parah, Safeena-al-Nisa. ; 2017 *IEEE Fourth International Conference on Image Information Processing (ICIIP)*, pp. 638-643, 21-23 Dec. 2017.  |
| **143** | A Compact dual band MIMO Antenna for WLAN Applications. **Javaid A. Sheikh**, Zamir A. Wani, Shabir A. Parah, G. Mohiuddin Bhat, 2016 *Annual IEEE India Conference (INDICON 2016)* DOI: [10.1109/INDICON.2016.7838994](https://doi.org/10.1109/INDICON.2016.7838994). |
| **144** | On the Realization of Robust Watermarking System for Medical Images; Shabir Ahmad Parah, Farhana Ahad, **Javaid Ahmad Sheikh**, G. Mohiuddin Bhat.; 2015 *Annual IEEE India Conference (INDICON*), 17-20 Dec. 2015, 978-1-4673-6540-6/15,2015 IEEE, DOI: 10.1109/INDICON.2015.7443363. |
| **145** | A high capacity data hiding scheme based on edge detection and even-odd plane separation.; Shabir A. Parah, Jahangir A. Akhoon, **Javaid A. Sheikh,** Nazir A. Loan, G. Mohiuddin Bhat.; 2015 *Annual IEEE India Conference (INDICON),* 17-20 Dec. 2015, 978-1-4673-6540-6/15, IEEE, DOI: 10.1109/INDICON.2015.7443595. |
| **146** | Design and Realisation of Multirate Signal Processor for Enhancement Performance of Digital Receivers**.; Javaid ahmad sheikh**, Jai Preet Kour Wazir, Shabir Ahmad Parah, G.M. Bhat.; 2015 *Annual IEEE India Conference (INDICON),* 17-20 Dec. 2015, DOI: 10.1109/INDICON.2015.7443301. |
| **147** | On the Design and Performance Evaluation of Compressed Speech Transmission Over Wireless Channel.; **Javaid Ahmad Sheikh**, Sakeena Akhtar, Shabir Ahmad Parah, G. Mohiuddin Bhat.; 2015 *Annual IEEE India Conference (INDICON),* 17-20 Dec. 2015, 978-1-4673-6540-6/15, 2015 IEEE DOI: 10.1109/INDICON.2015.7443294. |
| **148** | Bit Error Rate (BER) Improvement of Multiple Input Multiple Output Orthogonal Frequency Division Multiplexing (MIMO-OFDM) System Using Bit Level Scrambling.; **Javaid Ahmad Sheikh**, Uzma, Shabir A. Parah, G. Mohiuddin Bhat.; 2015 *Annual IEEE India Conference (INDICON),* 17-20 Dec. 2015, 978-1-4673-6540-6/15, 2015 IEEE, DOI: 10.1109/INDICON.2015.7443308. |
| **149** | Novel Hybrid Technique for PAPR Reduction in OVSF based OSTBC-OFDM System.; Mehboob ul Amin, **Javaid Ahmad Sheikh**, Shabir Ahmad Parah, G. M. Bhat.; 2015 *Annual IEEE India Conference (INDICON),* 17-20 Dec. 2015, 978-1-4673-6540-6/15, IEEE, DOI: 10.1109/INDICON.2015.7443483. |
| **150** | On the Realization of Robust Watermarking System for RGB Medical Images.; Shabir Ahmad Parah, **Javaid Ahmad Sheikh**, Farhana Ahad, G. Mohiuddin Bhat.; Commune 2015 International Conference on Advances in Computers, Communication and Electronic Engineering March 16-18, 2015, pp: 270-274, University of Kashmir, ISBN (Online): 978-93-82288-63-3, DOI: 10.13140/RG.2.1.1681.6087  |
| **151** | Realization of a Fragile Medical Image Watermarking System for Content Authentication.; Shabir Ahmad Parah, **Javaid Ahmad Sheikh**, Zahid Hussain, Syed Mohsin.; Commune 2015 *International Conference on Advances in Computers, Communication and Electronic Engineering* March 16-18, 2015, pp: 275-279, University of Kashmir. ISBN (Online): 978-93-82288-63-3, DOI: 10.13140/RG.2.1.1681.6087. |
| **152** | A Blind Watermarking Technique in Spatial Domain Using Inter- Block Pixel Differencing.; Shabir Ahmad Parah, **Javaid Ahmad Sheikh**, Nazir Ahmad Lone, G. Mohiuddin Bhat, Commune 2015 *International Conference on Advances in Computers, Communication and Electronic Engineering* March 16-18, 2015, pp: 231-326, University of Kashmir, ISBN (Online): 978-93-82288-63-3, DOI: 10.13140/RG.2.1.1681.6087.  |
| **153** | High Capacity Data Hiding using Random Plane Indicator Technique for Color Images.; Shabir Ahmad Parah, **Javaid Ahmad Sheikh**, Jahangir A. Akhoon, G. Mohiuddin Bhat.; Commune 2015 *International Conference on Advances in Computers, Communication and Electronic Engineering* March 16-18, 2015, pp: 339-343, University of Kashmir. ISBN (Online): 978-93-82288-63-3, DOI: 10.13140/RG.2.1.1681.6087.  |
| **154** | Performance Evaluation and Comparison of Speech Compression using Linear Predictive Coding and Discrete Wavelet Transform.; **Javaid A Sheikh**, Shabir A Parah , Sakeena Akhtar, G.M. Bhat.; Commune 2015 *International Conference on Advances in Computers, Communication and Electronic Engineering* March 16-18, 2015, pp: 352-255, University of Kashmir, ISBN (Online): 978-93-82288-63-3, DOI: 10.13140/RG.2.1.1681.6087.  |
| **155** | Effect of Convolutional Encoding on Bit Error Rate (BER) for Image Transmission using Multiple Input Multiple Output Orthogonal Frequency Division Multiplexing (MIMO-OFDM) System over Fading Channels.; **Javaid Ahmad Sheikh**, Shabir Ahmad Parah, Uzma, Aijaz, Tawseef, Farah, Sanna, Aiman, G. Mohiuddin Bhat.; *Commune 2015 International Conference on Advances in Computers, Communication and Electronic Engineering* March 16-18, 2015, pp: 161-164, University of Kashmir, ISBN (Online): 978-93-82288-63-3, DOI: 10.13140/RG.2.1.1681.6087  |
| **156** | On the Study and Performance Evaluation of Multirate Filter.; **Javaid Ahmad Sheikh**, Jai Preet Kour Wazir, Shabir Ahmad Parah, G. Mohiuddin Bhat.; *Commune 2015 International Conference on Advances in Computers, Communication and Electronic Engineering* March 16-18, 2015, pp: 237-330, University of Kashmir. ISBN (Online): 978-93-82288-63-3, DOI: 10.13140/RG.2.1.1681.6087  |
| **157** | Improving the Network Capacity and Coverage of 4G-LTE Advanced Systems using Relaying Technology.; **Javaid Ahmad Sheikh**, Mehbool ul Amin, Shabir Ahmad Parah, G. Mohiuddin Bhat.; *Commune 2015 International Conference on Advances in Computers, Communication and Electronic Engineering* March 16-18, 2015,pp: 491-494, University of Kashmir, ISBN (Online): 978-93-82288-63-3, DOI: 10.13140/RG.2.1.1681.6087  |
| **158** | Fragility Evaluation of Intermediate Significant Bit Embedding (ISBE) Based Digital Image Watermarking Scheme For Content Authentication.; Shabir A. Parah, **Javaid A. Sheikh**, G. Mohiuddin Bhat.; *In Proc. Of IEEE International Conference on Electronics, Computers and Communication*, 10-11 Oct. 2014. DOI: [10.1109/ICAECC.2014.7002424](https://doi.org/10.1109/ICAECC.2014.7002424), Bangalore India. |
| **159** | On the Realization of a spatial Domain Data Hiding Technique based on Intermediate Significant Bit Plane Embedding (ISBPE) and Post Embedding Pixel Adjustment (PEPA).; Shabir A. Parah, **Javaid A. Sheikh**, , G. Mohiuddin Bhat.; *Proceedings of IEEE International Conference on Multimedia Signal Processing and Communication Technologies- IMPACT* 2013 (AMU, Aligargh-23- 25 Nov. 2013), pp. 51-55.  |
| **160** | PAPR reduction in MIMO- OFDM system using combination of OSTBC encoder and Spreading Code Sequences.; **Javaid A. Sheikh**, Shabir A. Parah, G. Mohiuddin Bhat.; *Proceedings of IEEE International Conference on Multimedia Signal Processing and Communication Technologies- IMPACT* 2013 (AMU, Aligargh-23- 25 Nov. 2013) pp 11- 15.  |
| **161** | Orthogonal Variable Spreading Factor (OVSF) based image Transmission using Multiple Input Multiple Output Orthogonal Frequency Division Multiplexing (MIMO-OFDM) System.; **Javaid A. Sheikh**, Shabir A. Parah, G. Mohiuddin Bhat.; IEEE sponsored International Conference on Communications Devices and Intelligent systems (CODIS)”, Jadavpur University Kolkatta, 28-29 Dec. 2012, pp. 45-48. |
| **162** | A Pattern Recognition Approach based on Feature-wise comparison; Abdul. M. Hafiz, **Javaid A. Sheikh** and Shabir A. Parah.; 2012 *IEEE International Conference on Computational Intelligence and Computing Research,* 18-20 Dec. 2012.  |
| **163** | Data hiding in intermediate significant bit planes, a high capacity blind steganographic; Shabir A. Parah, **Javaid A. Sheikh**, G. M. Bhat.; In proc. of IEEE sponsored Intl. Conference INCOSET-2012, Tiruchirapalli Tamilnadu, India.13-14 Dec. 2012, pp. 192-197  |
| **164** | On the realization of Reconfigurable Key based stream cipher for Secure Communication.; Shabir A. Parah, **Javaid A. Sheikh**, G. Mohiuddin Bhat.; *International conference on recent advances in Electronics and Computer Engineering* 17- 18th Dec. 2011, Eternal University, Baru Sahib, Himachal Pradesh. Pp. 38.  |
| **165** | Simulation Modelling and Performance Evaluation of Data Transmission over New Rayleigh Fading Channel. **Javaid A. Sheikh**, Shabir A. Parah, G. Mohiuddin Bhat. *International conference on recent advances in Electronics and Computer Engineering* 17- 18th Dec. 2011, Eternal University, Baru Sahib, Himachal Pradesh. Pp. 37 |
| **166** | On the Design and Realization of Non- Synchronous Frequency Hopping Spread Spectrum for Securing data over Mobile and Computer networks.; **Javaid A. Sheikh**, Shabir A. Parah, G. Mohiuddin Bhat.; *Global trends in Computing and Communication Systems, ObCom- 2011, Springer, proceedings* part- 1, pp. 227-236. Volume 269, 227-236, DOI: 10.1007/978-3-642-29219-4\_27 |
| **167** | On the Realization and Design of Chaotic Spread Spectrum Modulation Technique for Secure Data Transmission.; Shabir A. Parah, **Javaid A. Sheikh**, G. Mohiuddin Bhat.; *Proceedings of first IEEE sponsored international conference IMPACT*-2009 at AMU Aligarh India, 978-1-4244-3604-0/09/2009, 14-16 March 2009, pp 241-244 |
| **168** | Design and Development of Encrypted Controller for Secure Data Transmission, National conference on current trends in mobile computing. G. M. Bhat, **Javaid Ahmad,** Shabir Ahmad, 2008, Baba Gulam Shah Badshah University, Rajouri J &K. pp-242-245. |

**BOOK CHAPTERS**

|  |  |
| --- | --- |
| **1** | Wani, A.R., Jan, N., Shiekh, J.A., Lone, J.H., Balkhi, A.A. (2025). 5G Dual-Band Slot Antenna for Millimeter Wave Communication. In: Rawat, S., Kumar, A., Raman, A., Kumar, S., Pathak, P. (eds) Proceedings of Third International Conference on Computational Electronics for Wireless Communications. ICCWC 2023. Lecture Notes in Networks and Systems, vol 959. Springer, Singapore. <https://doi.org/10.1007/978-981-97-1943-3_21>. |
| **2** | Rasool, U., Sheikh, J.A., Ashraf, S., Ahmed, S. (2024). On the Study of Contemporary Wideband On-body Antenna-Based Sensor Designs for Bio-medical Applications. In: Sheikh, J.A., Khan, T., Kanaujia, B.K. (eds) Intelligent Signal Processing and RF Energy Harvesting for State of art 5G and B5G Networks. Energy Systems in Electrical Engineering. Springer, Singapore. <https://doi.org/10.1007/978-981-99-8771-9_2> |
| **3** | 1. Ashraf, S., Sheikh, J.A., Ashraf, A., Rasool, U. (2024). 5G Millimeter Wave Technology: An Overview. In: Sheikh, J.A., Khan, T., Kanaujia, B.K. (eds) Intelligent Signal Processing and RF Energy Harvesting for State of art 5G and B5G Networks. Energy Systems in Electrical Engineering. Springer, Singapore. <https://doi.org/10.1007/978-981-99-8771-9_6>
 |
| **4** | 1. Sakeena Akhtar, Javaid A. Sheikh, Rehana Amin “A New method of 5G based Mobile Computing for Internet of Medical Things (IoMT) Applications” Federated Learning for Internet of Medical Things: Concepts, Paradigms, and Solutions” CRC Press, Taylor & Francis. Editors Dr. Sudeep Tanwar, Dr. Pronaya Bhattacharya, Prof Ashwin Verma.
 |
| **5** | Jasiya Bashir, Javaid A. Sheikh and Zahid A. Bhat “Intelligent and Reliable Cognitive 5G Networks using Whale Optimization Techniques” Advances in Swarm Intelligence: Variations and Adaptations for Optimization Problems (swarm21)” of Springer book series “Studies in Computational Intelligence”. 978-3-031-09834-5 vol. 1054 |
| **6** | 1. Umhara Khan, Abdul Basit, Javaid A. Sheikh, G.M. Bhat and Suhaib Ahmed “Design of multiband pattern reconfigurable antenna loaded with circular split ring resonators” International Conference on recent innovations in computing (ICRIC-2021),8-9 June, 2021, Indo- Hungry Springer (Indexed by Scopus) Lecture notes in Electrical Engineering book series (LNEE,volume 855) pp 315-326
 |
| **7** | Evaluation of spectral efficiency for 5G waveform contenders” *2nd Springer International Conference on Soft Computing for Intelligent Systems*” Sumina Sidiq, **Javaid A. Sheikh**, Farhana Mustafa, University Institute of Engineering & Technology, Kurukshtera University, Kurukshtra, 24th -25th December, 2020 |
| **8** | 1. Raqeebur Rehman, **Javaid A. Sheikh**, Khurshed A. Shah, Zahid A. Bhat, Shabir A. Parah, and Shahid A. Malik, Compact Millimeter-Wave Low-Cost Ka-Band Antenna for Portable 5G Communication Gadgets, *Proceedings of Second International Conference on Computing, Communications, and Cyber-Security*, Lecture Notes in Networks and Systems 203, https://doi.org/10.1007/978-981-16-0733-2\_4.
 |
| **9** | Raqeeb-ur-Rehman, **Javaid A. Sheikh** “Compact High Gain 28Ghz Concentric Circular Director Low-cost Antenna for 5G millimetre Wave Communications” “Evolving Technologies for Smart world, Lecture notes in Electrical Engineering, Springer 694, <http://doi.org/10.1007/978-98-15-7804-5-9>.  |
| **10** | 1. Sadaf Aijaz, **Javaid A. Sheikh**, Tanzeela Ashraf, Mehboob-ul-Amin “Design and simulation of bio-inspired algorithm based cognitive radio for 5G networks” in the book entitled Enabling Technologies for Next Generation Wireless Communication, Taylor and Francis, CRC press, ISBN: 978-0-367-42249-3(lbk), 978-1-003-00347-2(ebk), pp,177-194 (2021).
 |
| **11** | Tanzeela Ashraf, **Javaid A. Sheikh**, Sadaf Aijaz, Mehboob-ul-Amin “Design and Simulation of New Beamforming based Cognitive Radio for 5G” in the book entitled Enabling Technologies for Next Generation Wireless Communication, Taylor and Francis, CRC press, ISBN: 978-0-367-42249-3(lbk), 978-1-003-00347-2(ebk), pp,239-258 (2021). |
| **12** | Shabir A. Parah, **Javaid A. Sheikh**, Farhana Ahad, G.M. Bhat. [High Capacity and Secure Electronic Patient Record (EPR), Embedding in Color Images for IoT Driven Healthcare Systems](https://www.springer.com/978-3-319-60434-3). In Internet of Things and Big Data Analytics Toward Next-Generation Intelligence, pp. 409-437. Springer, Cham, 2018 |
| **13** | Shabir A. Parah, Ifshan Ahmad, Nazir A. Loan, **Javaid A. Sheikh**, G. M. Bhat, Realization of an Adaptive Data Hiding System for Electronic Patient Record, Embedding in Medical Images. In Security in Smart Cities: Models, Applications, and Challenges (pp. 47-70). Springer, Cham, 2018. |
| **14** | Shabir A. Parah, Aadil Bashir, Misbah Manzoor, Arifa Gulzar, Maria Firdous, Nazir A. Loan, **Javaid A. Sheikh**, Secure and reversible data hiding scheme for healthcare system using magic rectangle and a new interpolation technique. In Healthcare Data Analytics and Management (pp. 267-309). Academic Press, 2018. |
| **15** | Shabir A. Parah, Tabish Digoo, Gazanfar A. Hamdani, Asif A. Shah, Irfan Khan, Obaid Khan, Nazir Loan, A reversible and secure electronic patient record embedding technique using histogram bin shifting and RC6 encryption. In Healthcare Data Analytics and Management (pp. 245-266). Academic Press, 2018. |
| **16** | Shabir A. Parah, **Javaid A. Sheikh**, Nazir A. Loan, G.M. Bhat, “A Robust and Computationally Efficient Digital Watermarking Technique Using Inter Block Pixel Differencing. Springer, In Multimedia Forensics and Security (pp. 223-252). Springer, Cham, 2017. |
| **17** | Shabir A. Parah, Farhana Ahad, **Javaid A. Sheikh**, Nazir A. Loan, G.M. Bhat, “Pixel Repetition Technique: A High Capacity and reversible data hiding method for E-Healthcare applications”. In Intelligent Techniques in Signal Processing for Multimedia Security (pp. 371-398). Springer, Cham, 2016. |
| **18** | Shabir A. Parah, **Javaid A. Sheikh**, G.M. Bhat, “StegNmark: A Joint Stego-watermark approach for early tamper detection”. In Intelligent techniques in signal processing for multimedia security (pp. 427-452). Springer, Cham, 2016. |
| **19** | 1. **Javaid A. Sheikh**, Arshid Iqbal Khan, Mehboob-ul- Amin, G. Mohiuddin Bhat “Energy Efficient Resource Allocation for LSA Array Based 5G Wireless Communication Systems Using Convex Optimization Techniques” Applications of Artificial Intelligence Techniques in Engineering, Springer H. Malik et al. (eds.), Applications of Artificial Intelligence Techniques in Engineering, Advances in Intelligent Systems and Computing 698, <https://doi.org/10.1007/978-981-13-1819-1_13>.
 |
| **20** | **Javaid Ahmad Sheikh**, Sakeena Akhter, Shabir A. Parah, G.M. Bhat, “A New Method of Haar and Db10 Based secured compressed data transmission over GSM voice channels”. In Intelligent Techniques in Signal Processing for Multimedia Security (pp. 401-426). Springer, Cham, 2016. Techniques in signal processing for multimedia security, Springer, Vol: 660. |
| **21** | **Javaid Ahmad Sheikh**, Sakeena Akhter, Shabir A. Parah, G.M. Bhat “A New Method of Power Efficient Speech Transmission over 5G Networks using New Signaling Techniques, in Advances in Ubiquitous Computing: Cyber-Physical Systems, Smart Cities, and Ecological Monitoring”, Elsevier 2019. <https://doi.org/10.1016/B978-0-12-816801-1.00004-9>. |
| **22** | 1. **Javaid Ahmad Sheikh**, Mehboob ul Amin, Shabir A. Parah, G.Mohiuddin . Bhat “Resource allocation in Co-operative Relay Networks for IOT Driven Broadband Multimedia Services”. Handbook of Multimedia Information Security: Techniques and Applications Springer International Publications -2019.DOI 10.1007/978-3-030-15887-3
 |
| **23** | Nasir N. Hurrah, Shabir A. Parah, **Javaid A. Sheikh**, A secure medical image watermarking technique for e-healthcare applications, Handbook of Multimedia Information Security: Techniques and Applications, Handbook of Multimedia Information Security: Techniques and Applications (HMIS), ISBN: 978-3-030-15887-3 Chapter, Springer, 2019. |
| **24** | Shabir A. Parah, Tabish Digoo, Gazanfar A. Hamdani, Asif A. Shah, Irfan Khan, Obaid Khan, Nazir A. Loan, **Javaid A. Sheikh**, - A reversible and secure electronic patient record embedding technique using histogram bin shifting and RC6 encryption, Nilanjan Dey, Amira S. Ashour, Chintan Bhatt, Simon James Fong, In Advances in ubiquitous sensing applications for healthcare, Healthcare Data Analytics and Management, Academic Press, 2019, Pages 245-266, ISBN 9780128153680.  |

**BOOKS EDITED and EDITOR**

1. Intelligent Signal Processing and RF Energy Harvesting for state of art 5G and B5G Networks, Springer Nature, Editors: Javaid A. Sheikh, Taimoor Khan, Binood Kumar Kanaujia, 9789819987702, Publisher [Springer Nature Singapore](https://www.barnesandnoble.com/s/%22Springer%2BNature%2BSingapore%22;jsessionid=3FC335C2998C6565B4F48708B1C6DFCD.prodny_store02-atgap16?Ntk=Publisher&Ns=P_Sales_Rank&Ntx=mode+matchall), Series [Energy Systems in Electrical Engineering](https://www.barnesandnoble.com/s/%22Energy%2BSystems%2Bin%2BElectrical%2BEngineering%22;jsessionid=3FC335C2998C6565B4F48708B1C6DFCD.prodny_store02-atgap16?Ntk=P_Series_Title&Ns=P_Series_Number&Ntx=mode+matchall), pages 192, editors [Javaid A. Sheikh (Editor)](https://www.barnesandnoble.com/s/%22Javaid%20A.%20Sheikh%22;jsessionid=3FC335C2998C6565B4F48708B1C6DFCD.prodny_store02-atgap16?Ntk=P_key_Contributor_List&Ns=P_Sales_Rank&Ntx=mode+matchall), [Taimoor Kh (Editor)](https://www.barnesandnoble.com/s/%22Taimoor%20Khan%22;jsessionid=3FC335C2998C6565B4F48708B1C6DFCD.prodny_store02-atgap16?Ntk=P_key_Contributor_List&Ns=P_Sales_Rank&Ntx=mode+matchall), [Binood Kumar Kanaujia (Editor)](https://www.barnesandnoble.com/s/%22Binood%20Kumar%20Kanaujia%22;jsessionid=3FC335C2998C6565B4F48708B1C6DFCD.prodny_store02-atgap16?Ntk=P_key_Contributor_List&Ns=P_Sales_Rank&Ntx=mode+matchall). ISBN no, 978-981-99-8771-9.
2. Radio Frequency, Communications and Signal Processing for 5G and Beyond 5G Networks” Editors Javaid A. Sheikh, Zahid A. Bhat, Issmat Shah, Publisher Taylor and Francis, Editors: Javaid A. Sheikh, Zahid A. Bhat, Issmat Shah Masoodi.
3. Chief Editor Current Indian Science, Wireless Communications Bentham Publications ISSN No. ISSN: 2210-299X (Online), 2210-3007 (Print).
4. Associate Editor, IECE Transactions on Mobile and Wireless Intelligence

**PAPERS PUBLISHED- SEMINAR PAPERS**

|  |  |
| --- | --- |
| **1** | Subreena Mushtaq, **Javaid A. Sheikh**, “Smart Antenna”. SEEDS 2018, UGC sponsored National Seminar on Electronic Devices, Systems and Information Security, 3-4 April, 2018, pp: 13, University of Kashmir |
| **2** | Zaffer Iqbal Mir, **Javaid A. Sheikh**, “Advances in Multirate Filter Banks”. SEEDS 2018, UGC sponsored National Seminar on Electronic Devices, Systems and Information Security, 3-4 April, 2018, pp: 16, University of Kashmir. |
| **3** | Sakeena Akhtar, **Javaid A. Sheikh**, “Blind Digital Speech Watermarking Using Filter Bank Multicarrier Modulation for 5G Networks”. SEEDS 2018, UGC sponsored National Seminar on Electronic Devices, Systems and Information Security, 3-4 April, 2018, pp: 46, University of Kashmir. |
| **4** | Sumina Sidiq, **Javaid A. Sheikh**, “Performance Evaluation of Various Signal Processing Techniques for 5G and IoT Networks”. SEEDS 2018, UGC sponsored National Seminar on Electronic Devices, Systems and Information Security, 3-4 April, 2018, pp: 47, University of Kashmir. |
| **5** | Farhana Mustafa, G. M. Bhat, **Javaid A. Sheikh**, “Study of OFDM and FBMC-OQAM in Frequency and Time- Selective Channel for Optimization of Resource Allocation”. SEEDS 2018, UGC sponsored National Seminar on Electronic Devices, Systems and Information Security, 3-4 April, 2018, pp: 49, University of Kashmir. |
| **6** | 1. Arshid Iqbal Khan, **Javaid A. Sheikh**, “Cross Layer Optimization for Throughput and Impartial Resource Sharing in Wireless Communication Networks Employing Device to Device (D2D) Communication”. SEEDS 2018, UGC sponsored National Seminar on Electronic Devices, Systems and Information Security, 3-4 April, 2018, pp: 51, University of Kashmir.
 |
| **7** | Priyanaka Mishra, **Javaid A. Sheikh**, “On the Study and Realization of Non-Orthogonal Multi-Carrier MIMO Communication Using FBMC over Fading Channels”. SEEDS 2018, UGC sponsored National Seminar on Electronic Devices, Systems and Information Security, 3-4 April, 2018, pp: 54, University of Kashmir. |
| **8** | Ifrah Afzal, **Javaid A. Sheikh**, “Performance Evaluation of Spectrally Efficient Frequency Division Multiplexing (Sefdm) Technique for 5G Networks and IoT”. SEEDS 2018, UGC sponsored National Seminar on Electronic Devices, Systems and Information Security, 3-4 April, 2018, pp: 55, University of Kashmir. |
| **9** | Shifa Showkat, **Javaid A. Sheikh**, “A New Technique of Medical Image Transmission over 5G Network Using FBMC”. SEEDS 2018, UGC sponsored National Seminar on Electronic Devices, Systems and Information Security, 3-4 April, 2018, pp: 59, University of Kashmir. |
| **10** | Raqeebur Rehman, Zahid A. Bhat, **Javaid A. Sheikh**, “On the Study of Future Communication Systems Utilizing Millimeter-Wave and Massive MIMO”. SEEDS 2018, UGC sponsored National Seminar on Electronic Devices, Systems and Information Security, 3-4 April, 2018, pp: 61, University of Kashmir. |
| **11** | Zahid A. Bhat, Raqeebur Rehman, Javaid A. Sheikh, “On the Study of Micro-Strip Bandpass Filters for Ultra-Wide Band Applications”. SEEDS 2018, UGC sponsored National Seminar on Electronic Devices, Systems and Information Security, 3-4 April, 2018, pp: 62, University of Kashmir. |
| **12** | Sakib Qadir Sofi, Zeeshan Shafi, **Javaid A. Sheikh**, “Energy Efficient Adaptive Antenna Systems”. SEEDS 2018, UGC sponsored National Seminar on Electronic Devices, Systems and Information Security, 3-4 April, 2018, pp: 66, University of Kashmir. |
| **13** | Madiha Showkat, **Javaid A. Sheikh**, “Non-Orthogonal Multiple Access (NOMA) for Future Radio Access”. SEEDS 2018, UGC sponsored National Seminar on Electronic Devices, Systems and Information Security, 3-4 April, 2018, pp: 70, University of Kashmir. |
| **14** | Sakeena Akhtar, **Javaid A. Sheikh**, Shabir A. Parah, Zaffer Iqbal, “BER Analysis of Speech Transmission in Fading Environment Using MIMO-FBMC and OFDM for Future 5G Mobile Communications Technology”. 13th JK Science Congress, 2-4 April 2018, University of Kashmir. |
| **15** | Nasir N. Hurrah, Nazir A. Loan, Jahangir A. Akhoon, Shabir A. Parah, **Javaid A. Sheikh**, “A Highly Sensitive Encryption Technique for High Security Watermarking Applications”, 13th–JK Science Congress, 02-04 April 2018, pp. 658, University of Kashmir. |
| **16** | Aiman Jan, Shabir A. Parah, Bilal A. Malik, **Javaid A. Sheikh**, G. M. Bhat, “An Overview of the Image Edge Detection Techniques for Information Hiding”, 13th–JK Science Congress, 02-04 April 2018, pp. 663, University of Kashmir. |
| **17** | Muzamil Hussan, Shabir A. Parah, Ghulam G. Qureshi, **Javaid A. Sheikh**, G. M Bhat, “Overview of Different Watermarking Techniques for Copyright Protection and Authentication”, 13th–JK Science Congress, 02-04 April 2018, University of Kashmir. |
| **18** | Nazir A. Loan, Nasir N. Hurrah, Shabir A.Parah, Jahangir A. Akhoon, **Javaid A. Sheikh**, “Blind Robust Image Rotation Estimation Technique Based on Pythagorean Theorem”, 13th–JK Science Congress, 02-04 April 2018, pp. 674, University of Kashmir. |
| **19** | Nazir Ahmed Loan, Jahangir A. Akhoon, Nasir N. Hurrah, Shabir A. Parah, **Javaid A. Sheikh**, “High Capacity Reversible Data Hiding Technique based on Image Resize and Pixel Scrambling”. 2017 UGC Sponsored National Seminar on Electronic Devices, Systems and Information Security, 24-25 March, 2017, pp: 22, University of Kashmir, Srinagar, India. |
| **20** | Javaid. A. Kaw, Nazir A. Lone, G. M. Bhat, **Javaid A. Sheikh**, Mehboob Ul Amin, Shabir A. Parah, “Reversible Stenographic Technique Based on Pixel Repetition Method and Data Shifting”. 2017 UGC Sponsored National Seminar on Electronic Devices, Systems and Information Security, 24-25 March, 2017, pp: 58, University of Kashmir, Srinagar, India. |
| **21** | Nasir N. Hurrah, Nazir A. Loan, Jahangir A. Akhoon, Issmat S. Masoodi, Shabir A. Parah, **Javaid A. Sheikh**, “A Multipurpose Robust Watermarking Algorithm with Multilayer Security”. 2017 UGC Sponsored National Seminar on Electronic Devices, Systems and Information Security, 24-25 March, 2017, pp: 58, University of Kashmir, Srinagar, India. |
| **22** | G. M. Bhat, Uzma, **Javaid A. Sheikh**, Shabir A. Parah, “Study of Various Synchronization Techniques for Orthogonal Frequency Division Multiplexing (OFDM)-A Review”. 2017 UGC Sponsored National Seminar on Electronic Devices, Systems and Information Security, 24-25 March, 2017, pp: 72, University of Kashmir, Srinagar, India. |
| **23** | Sakeena Akhtar, **Javaid A. Sheikh**, “Efficient and Watermarked Speech Transmission over Mobile Fading Channels”. 2017 UGC Sponsored National Seminar on Electronic Devices, Systems and Information Security, 24-25 March, 2017, pp: 85, University of Kashmir, Srinagar, India. |
| **24** | 1. Mehboob ul Amin, **Javaid A. Sheikh**, Shabir A. Parah, G. M. Bhat, “Massive MIMO for Efficient and Computationally Efficient Receiver Design using Beamforming Vector: A Future for Cellular Internet of Things and 5G”. 2017 UGC Sponsored National Seminar on Electronic Devices, Systems and Information Security, 24-25 March, 2017, pp: 87, University of Kashmir, Srinagar, India.
 |
| **25** | Sakeena Akhtar, **Javaid A. Sheikh**, Shabir A. Parah, G. M. Bhat, “Speech Signal Compression and Transmission using Daubechies Wavelets in a Space Time Block Coded Cooperative MIMO-OFDM Systems”, SEEDS 2016, UGC sponsored National Seminar on Electronic Devices, Systems and Information Security, 18-19 March, 2016, pp: 54, University of Kashmir. |
| **26** | **Javaid A. Sheikh**, Jai Preet K. Wazir, Shabir A. Parah, G. M. Bhat, “On the Design and Realization of Adaptive Noise Canceller based on Multi-rate Filter Techniques”, SEEDS 2016, UGC sponsored National Seminar on Electronic Devices, Systems and Information Security, 18-19 March, 2016, pp: 56, University of Kashmir. |
| **27** | Uzma Bhat, **Javaid A. Sheikh**, Shabir A. Parah, G. M. Bhat, “Study of Various Multiple Access Extensions of OFDM for 4G Broadband Wireless Communication Systems”, SEEDS 2016, UGC sponsored National Seminar on Electronic Devices, Systems and Information Security, 18-19 March, 2016, pp: 57, University of Kashmir. |
| **28** | Nazir A. Loan, Shabir A. Parah, **Javaid A. Sheikh**, Nasir N. Hurrah, Jahangir A. Akhoon, “Robust Watermarking for General and Medical Images in Pixel Domain”, SEEDS 2016, UGC sponsored National Seminar on Electronic Devices, Systems and Information Security, 18-19 March, 2016, pp: 61, University of Kashmir. |
| **29** | Nasir Nabi Hurrah, **Javaid A. Sheikh**, Shabir A. Parah, Jahangir A. Akhoon, “Robust Watermarking Scheme with two Layer Security and Adaptive Strength”, SEEDS 2016, UGC sponsored National Seminar on Electronic Devices, Systems and Information Security, 18-19 March, 2016, pp: 69, University of Kashmir.  |
| **30** | Jahangir Ahmad Akhoon, Shabir A. Parah, **Javaid A. Sheikh**, Nazir A. Loan, Nasir N. Hurrah, “On the Realization of a High-Capacity Data Hiding Technique for Color Images using Edge Detection”, SEEDS 2016, UGC sponsored National Seminar on Electronic Devices, Systems and Information Security, 18-19 March, 2016, pp: 76, University of Kashmir. |
| **31** | Saba Amin, Javaid A Sheikh, Mehboob ul Amin, Shabir A Parrah, G. Mohiudin Bhat, “Achievable Maximum Detection Probability of Cognitive Radio Networks with Cooperative MIMO-OFDM”. SEEDS 2016, UGC sponsored National Seminar on Electronic Devices, Systems and Information Security, 18-19 March, 2016, pp: 99, University of Kashmir. |
| **32** | G. M. Bhat, Uzma, **Javaid A. Sheikh**, Shabir A. Parah, “Study of Channel Estimation Techniques in Multiple Input Multiple Output Orthogonal Frequency Division Multiplexing (MIMO-OFDM) - A Review”. UGC Sponsored National Seminar on Electronic Devices, Systems and Information Security, 16-17 march, 2015, pp: 33, University of Kashmir. |
| **33** | Javaid Ahmad Sheikh, Shabir Ahmad Parah, Sakeena Akhtar, “Effect of New Hybrid Techniques on Speech Compression”. UGC Sponsored National Seminar on Electronic Devices, Systems and Information Security, 16-17 march, 2015, pp: 46, University of Kashmir. |
| **34** | Javaid Ahmad Sheikh, Jai Preet Kour Wazir, Shabir Ahmad Parah, G. M. Bhat, “Performance Enhancement of Digital Receivers Using Interpolation Multi-rate Filter”. UGC Sponsored National Seminar on Electronic Devices, Systems and Information Security, 16-17 march, 2015, pp: 47, University of Kashmir. |
| **35** | Javaid Ahmad Sheikh, Mehboob ul Amin, Shabir Ahmad Parah, G. M. Bhat, “Performance Evaluation of Peak to Average Power Ratio (PAPR) using Transform Techniques in MIMO-OFDM”. UGC Sponsored National Seminar on Electronic Devices, Systems and Information Security, 16-17 march, 2015, pp: 49, University of Kashmir. |
| **36** | G. M. Bhat, **Javaid A. Sheikh**, Shabir A. Parah, Uzma, Nahiya Malik\*, Misbah, “Performance Evaluation of Multi User DS-SS System over Multipath Fading Channel Using New Gold Code”. UGC Sponsored National Seminar on Electronic Devices, Systems and Information Security, 16-17 march, 2015, pp: 54, University of Kashmir |
| **37** | Rouf ul Alam Bhat, **Javaid A. Sheikh**, Misbah, Nahiya Malik, “Microcontroller based Advanced Vehicle Accident Detection and Prevention System”. UGC Sponsored National Seminar on Electronic Devices, Systems and Information Security, 16-17 march, 2015, pp: 63, University of Kashmir. |
| **38** | 1. **Javaid A. Sheikh**, Shabir A. Parah, G. Mohiuddin Bhat “Performance Evaluation of MIMO based Binary Phase Shift Keying (BPSK) over Rayleigh Fading Channel with Alamouti Space Time Block Coding”. 9th J & K Science Congress and Regional Science Congress, University of Kashmir, Srinagar, 1- 3, Oct. 2013.pp-273.
 |
| **39** | 1. Shabir A. Parah, **Javaid A. Sheikh**, G. Mohiuddin Bhat “On the FPGA Implementation of Geffe- Generator Based stream Cipher for secure Communication”. 9th J & K Science Congress and Regional Science Congress, University of Kashmir, Srinagar, 1- 3, Oct. 2013.pp-27.
 |
| **40** | **Javaid A. Sheikh**, Shabir A. Parah, G. Mohiuddin Bhat “Multiple Input Multiple Output Orthogonal Frequency Division Multiplexing (MIMO- OFDM) based Image Transmission with Improved Peak to Average Power Ratio (PAPR)” 9th J & K Science Congress and Regional Science Congress, University of Kashmir, Srinagar, 1- 3, Oct. 2013.pp-274. |
| **41** | G. Mohiuddin Bhat, M. Rafiq Dar, Shabir A. Parah, **Javaid A. Sheikh**, “A Comparative Analysis of Stenographic Techniques in Transform Domain” 9th J & K Science Congress and Regional Science Congress, University of Kashmir, Srinagar, 1- 3, Oct. 2013.pp-273. |
| **42** | G. Mohiuddin Bhat, Irshad A. Bhat, Shabir A. Parah, **Javaid A. Sheikh** “Performance Evaluation of various Peak to Average Power (PAPR) Reduction Techniques for Orthogonal Frequency Division Multiplexing (OFDM)” 9th J & K Science Congress and Regional Science Congress, University of Kashmir, Srinagar, 1- 3, Oct. 2013.pp-274. |
| **43** | 1. Reyaz Ahmad Matangi, M. Tariq Banday, **Javaid A. Sheikh** “A Comparative Study of methods for Prevention and Detection pf IP Address Spoofing” 9th J & K Science Congress and Regional Science Congress, University of Kashmir, Srinagar, 1- 3, Oct. 2013.pp-276.
 |
| **44** | 1. Tawheed J. M. Tariq Banday, **Javaid A. Sheikh** “A Comparative Study of Image Compression techniques”. 9th J & K Science Congress and Regional Science Congress, University of Kashmir, Srinagar, 1- 3, Oct. 2013.pp-278
 |
| **45** | Syed Umaira Qadri, M. Tariq Banday, **Javaid A. Sheikh** “Study of Structural Health Monitoring and Damage Detection Techniques Using MEMS” A Comparative Study of Image Compression techniques”. 9th J & K Science Congress and Regional Science Congress, University of Kashmir, Srinagar, 1- 3, Oct. 2013.pp-279. |
| **46** | 1. Shabir A. Parah, Farhana Ahad, Syed Asifa Andrabi, Nighat Kowsar, **Javaid A. Sheikh**, G. Mohiuddin Bhat, “Color Image Based Information Hiding System”.9th J & K Science Congress and Regional Science Congress, University of Kashmir, Srinagar, 1- 3, Oct. 2013.pp-281.
 |
| **47** | **Javaid A. Sheikh**, Shabir A. Parah, Iqra Syed, G. Mohiuddin Bhat “On the Study High Speed and High-Performance Digital Signal Processing (DSP) based Design Applications”. 9th J & K Science Congress and Regional Science Congress, University of Kashmir, Srinagar, 1- 3, Oct. 2013.pp-231 |
| **48** | 1. **Javaid A. Sheikh**, Shabir A. Parah, G. Mohiuddin Bhat “Performance Evaluation of various Digital Modulation Techniques using Multiple Input Multiple Output (MIMO) Wireless Communication System” 8th J & K Science Congress, University of Kashmir, Srinagar, 15- 17, Sep. 2012.

 Shabir A. Parah., **Javaid A. Sheikh**, G. M Bhat., “On the realization of data hiding technique using Zig- Zag embedding of secure data” 8th J & K Science Congress, University of Kashmir, Srinagar, 15- 17, Sep. 2012. |
| **49** | M. Hafiz, **J. A. Sheikh**, “A new Artificial Neural Network based Peak to Average Power Ratio (PAPR) Reduction Technique in Orthogonal Frequency Division Multiplexing (OFDM) Signals,” Proc. of 8th JK Science Congress, Sep. 2012. |
| **50** | A. M. Hafiz, J. A. Sheikh, “MASCOM: A Novel Approach to Pattern Recognition,” Proc. of 8th JK Science Congress, Sep. 2012.  |
| **51** | **Javaid A. Sheikh**, Shabir A. Parah, G. Mohiuddin Bhat “Simulation and Modelling of Rayleigh Fading Channel for Wireless Communication applications”, 7th J &K Science Congress Oct. 13- 15, 2011. Pp. 426 |
| **52** | **Javaid A. Sheikh**, Shabir A. Parah, G. Mohiuddin Bhat: “On the Design and Realization of Novel FM based Chaotic Signal Generator for CDMA applications” 7th J &K Science Congress Oct. 13- 15, 2011. Pp. 148 |
| **53** | **Javaid A. Sheikh**, Shabir A. Parah, G. Mohiuddin Bhat: “On the Realization of non- linear Combinational Generator based data Encryptor/Decryptor . 7th J &K Science Congress Oct. 13- 15, 2011. Pp. 171 |
| **54** | Shabir A. Parah, **Javaid A. Sheikh**, G. Mohiuddin Bhat Roboust and Secure imperceptible image Watermarking technique for copy right protection, 7th J &K Science Congress Oct. 13- 15, 2011. Pp. 172 |
| **55** | G. M. Bhat, **Javaid Ahmad**, Shabir Ahmad “On the Design and Realization of Novel Gold code Generator for CDMA applications, 6th J & K Science Congress. 2010 |
| **56** | G. M. Bhat, Javaid Ahmad, Shabir Ahmad “On the realization of Novel PN code Generator for CDMA Applications”, Proc. of 5th J&K Science Congress, University of Jammu, J&K. |
| **57** | G. M. Bhat, Javaid Ahmad, Shabir Ahmad “VHDL Implementation of Novel Complex PN Code Generator”, Proc.of 5th J&K Science Congress, University of Jammu, J&K |
| **58** | G. M. Bhat, Javaid Ahmad, Shabir Ahmad “Design and realization of Multiple Access Direct Sequence Spread Spectrum Trans- receiver for secure data transmission”, Fourth J&K science congress, 2008. Pp: 269  |
| **59** | G. M. Bhat, Javaid Ahmad, “Secure Data Transmission using Pseudo random Process Shift Keying, Proc. of 3rd, J&K science congress, 2008, University of Jammu. |
|  |  |

**Programs/ Workshops Coordinated**

|  |  |
| --- | --- |
| **1** | Co-ordinated Two weeks FDP onApplications of Applied Signal Processing, Communications and Devices for IoT driven e-Health Care (18th April – 27th April 2022), sponsored by Sponsored by Ministry of Electronics and Information and Technology (MeitY), GoI organized by E&ICT Academy, NIT Warangal and University of Kashmir (J&K).  |
| **2** | Co-ordinated Two weeks FDP on Artificial Intelligence and its Role in Future Communications, Signal Processing and Computing Applications” (Ist May 2023-10th May 2023), sponsored by Sponsored by Ministry of Electronics and Information and Technology (MeitY), GoI organized by E&ICT Academy, NIT Warangal and University of Kashmir (J&K). |
| **3** | Co-ordinated Fundamental glossary of Electronics (English-Hindi-Kashmiri) organized by Department of Electronics and I.T. University of Kashmir in collaboration with Commission for Scientific and Technical Terminology (CSTT), Ministry of Education, New Delhi from 16th May-19th May, 2023. |
| **4** | Co-ordinated Fundamental glossary of Electronics (English-Hindi-Kashmiri) organized by Department of Electronics and I.T. University of Kashmir in collaboration with Commission for Scientific and Technical Terminology (CSTT), Ministry of Education, New Delhi from 3rd July-7th July, 2023. |
| **5** | Co-ordinated Fundamental glossary of Electronics (English-Hindi-Kashmiri) organized by Department of Electronics and I.T. University of Kashmir in collaboration with Commission for Scientific and Technical Terminology (CSTT), Ministry of Education, New Delhi from 21st Aug-25th August, 2023. |
| **6** | Co-ordinated Workshop on IPR Awareness program on 8th June, 2023 in collaboration with office of the controller general of Patents, Design and Trade Marks, Ministry of Commerce and Trade Govt. of India under National IP awareness mission (NIPAM). |
| **7** |  Coordinated One day Workshop on Authorship and Manuscript Writing: Techniques and Practices for Quality Publication as DIQA coordinator on 22th Dec. 2023 |
| **8** | Received funds as Coordinator for Two-week hands-on workshop on RF, Communications and Signal Processing sponsored by J&K Council for Science, Technology and Innovation, Govt. of J & K.  |
| **9** |  Co-ordinated Fundamental glossary of Broadcasting (English-Hindi-Kashmiri) organized by Department of Electronics and I.T. University of Kashmir in collaboration with Commission for Scientific and Technical Terminology (CSTT), Ministry of Education, New Delhi from 15th May, 2024- 19th May, 2024 |
| **10** | Co-ordinated Fundamental glossary of Broadcasting (English-Hindi-Kashmiri) organized by Department of Electronics and I.T. University of Kashmir in collaboration with Commission for Scientific and Technical Terminology (CSTT), Ministry of Education, New Delhi from 24th June-29th June, 2024. |
| **11** | Co-ordinated Two-day seminar on “Kashmiri Technical Terminology and its role in Science and Technology organized by Department of Electronics and I.T. University of Kashmir in collaboration with Commission for Scientific and Technical Terminology (CSTT), Ministry of Education, New Delhi on 20th June and 21st June, 2024. |

**Technical Courses/Workshops/FDP’s etc. attended.**

|  |  |
| --- | --- |
| **1** | Attended Six-day Faculty Development Programe on Online “Industrial Applications of Embedded Systems and IoT” Organized by Department of Electronics and Communication Engineering, Rajalakshmi Engineering College in association with IIC, REC and IEEE Communication Society, REC. between 22-08-2024 to 28-08-2024. |
| **2** | Attended Six-day Faculty Development Programe on Latest developments in RF Technologies in 5G and Beyond” organized by Department of Electronics and Communication Engineering, Rajalakshmi Engineering College in association with IIC, REC and IEEE Communication Society, REC between 30-07-2024 to 06-08-2024. |
| **3** | Attended One Week Faculty Development Programe on IOT with Machine Learning” Organized by PVKK Institute of Technology in association with Pantech E-learning from 27-11-2023 to 02-12-2023. |
| **4** | Attended 6 days seminar on “Artificial Intelligence techniques for Healthcare Applications (AITHA-2023)" from 2023-02-22 to 2023-02-27 at National Institute of Technology, Delhi. |
| **5** | Attended One Week FDP on Advances in “Wireless and Antenna Technology” Conducted by Department of Electronics and Communication Engineering Dr. M. S Sheshgiri College of Engineering & Technology Balagvi Campus from 7th - 12th November 2022 in association with Mathworks. |
| **6** | Attended 3 days FDP on “Emerging Trends in Electronics and Computer Engineering” organized by the Department of ECE in Association with NSRIT - IETE Students' Chapter during October 27 - 29, 2022.  |
| **7** | Attended IEEE Faculty Training Program on 5G Wireless Communication Technology organized by IEEE India council from 28.07.2022 to 30.07.2022. |
| **8** | Conducted as Coordinator “Ten (10) day online Faculty Development Programme on Applications of Applied Signal Processing, Communications and Devices for IoT driven e-Health Care Jointly Organized by EICT Academy NIT Warangal - Telangana and Department of Electronics and IT, University of Kashmir- Srinagar, sponsored by Ministry of Electronics and Information Technology, Govt. of India from 12th May, 2022 to 21st May, 2022. |
| **9** | Attended “One Week Virtual Faculty Development Program on "Contemporary techniques in Electronics and Communications Engineering" Organised by Department of Electronics & Communications Engineering, Sree Rama Engineering college, Tirupathi from 20th June 2022 to 25th June 2022 |
| **10** | Attended Two-week Certificate course on “AI & Machine Learning for IoT/ED” Organized by Electronics and ICT Academy, NIT Patna and MNIT Jaipur, Ministry of Electronics and Information Technology (MeitY), Government of India from 07th to 17th March, 2022 |
| **11** | Attended FDP on “AI for Communication and Signal Processing Applications” Organized by Electronics & ICT Academy, NIT Warangal in association with VR Siddhartha Engineering College, Kanuru, Vijayawada (Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI), (31st January– 9th February 2022). |
| **12** | Attended “National Level Five-Days Online Workshop on “MATLAB and its Applications in Image Processing and Communication” conducted by the Department of Electronics and Communication Engineering, SRM TRP Engineering College, Tiruchirappalli in association with IETE and IIC from 21.02.2022 –25.02.2022 |
| **13** | Attended Two weeks Certificate Course on AI & Machine Learning for IoT/EDA ointly organized by the Electronics and ICT Academies at MNIT Jaipur and NIT Patna, during 07th to 17th March, 2022 under the “Scheme of financial assistance for setting up of Electronics and ICT Academies” of the Ministry of Electronics and Information Technology (MeitY), Government of India. |
| **14** | Attended one day Department of Biotechnology (DBT) Sponsored One Day online Seminar on “Biotechnological Applications Using Fiber-Optic sensors” organized by Department of Electronics & Communication Engineering, Kongunadu College of Engineering and Technology, Trichy, Tamilnadu on 12.03.2022 |
| **15** | Attended Two Weeks Refresher Course on Deep Learning and Machine Learning in Biomedical Signal Processing on 23rd August 2021 – 3rd September 2021 Department of Electronics and Communication Engineering, G. Narayanamma Institute of Technology and Science (for Women) (AUTONOMOUS) Shaikpet, Hyderabad, G. Pulla Reddy Engineering College (AUTONOMOUS), Kurnool (Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI).  |
| **16** | Attended one week FDP on Advances in Wireless and Antenna Technology This is to certify that has participated in One Week FDP on Dr.Basavaraj Katageri Principal Dr.D.A.Torse Head of the Department Conducted by Department of Electronics and Communication Engineering from 7th - 12th November 2022 in association with Mathworks organized by KLE Technological University, Dr. M.S. Shesgari College of Engineering and Technology, from 7th to 12th Nov. 2022 |
| **17** | Attended a one-week Faculty Development Programme on “Recent Advances in Antennas for Wireless Communications” organized by Department of Electronics and Communication Engineering, Bapatla Engineering College, Bapatla, Andhra Pradesh during 27th July to 31st July 2021 |
| **18** | Attended ALL INDIA COUNCIL FOR TECHNICAL EDUCATION Sponsored Six Days Short Term Training Programme (STTP) On “Emerging Trends and Research Challenges in Next Generation Wireless Networks” organized by Department of Electronics and Communication Engineering Kongunadu College of Engineering and Technology (Autonomous) Trichy from 29.03.2021 to 03.04.2021 |
| **19** | Attended in the GUJCOST-sponsored International Short-Term Training Programme on “Blockchain Technology, Research Avenues, and its applications” organized by the Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India during 12 th-17 th July 2021 |
| **20** | Attended Five-day TEQIP-III sponsored workshop on “Flexible and Wearable Antennas and Applications “organized by Rajasthan Technical University, Kota Regional College for Education, Research and Technology, Jaipur from 09-02-2021 to 13-02-2021  |
| **21** | Attended a Workshop on "Modelling, Measurement and Research trends in Microstrip Patch Antenna", organized by Department of Electronics and Communication Engineering in association with IETE Student Forum-Hyderabad and MTT-S, Kerala Chapter, from 20-07-2020 to 25-07-2020 |
| **22** | Attended One Week Faculty Development Program on “Modelling, Measurement and Research trends in Microstrip Patch Antenna” organized by Department of Electronics and Communication Engineering in association with IETE Student Forum-Hyderabad and MTT-S, Kerala Chapter from 20.07.2020 to 25.07.2020 |
| **23** | Attended a Symposia on "Five Days live International Hands-on Certification training in Python programming", organized by Deppt. of Computer Sciences and Engineering and Information Technology in association with Lebanese French University (Iraq), from 20-08-2020 to 24-08-2020 |
| **24** | Attended a Workshop on "Plagiarism - An Opportunity to Learn, Teach & Excel", organized by Department of Bioresources University of Kashmir, dated 24-06-2020 |
| **25** | Attended a Workshop on "One-Week Indo-Canada SPARC-Workshop on RF Energy Harvesting Systems, REHS-2020", organized by Department of Electronics & Communication Engineering, National Institute of Technology Silchar, India, from 17-07-2020 to 21-08-2020 |
| **26** | Attended a Workshop on "Emerging Trends and Research Challenges in Next Generation Wireless Networks", organized by Kongunadu College of Engineering and Technology (Autonomous), from 29-03-2021 to 31-03-2021 |
| **27** | Attended a Workshop on "Planning and Organizing research using Elsevier Tools: Science Direct, Scoups and Mendeley", organized by University of Kashmir, dated 26-04-2020 |
| **28** | Attended TEQIP-III Sponsored ONE WEEK WORKSHOP ON “Foundations of Fuzzy SET and Fuzzy Logic applications from 30th September- 4th October 2019 at Department of Computer Engineering SMVDU, KATRA J&K |
| **29** | One Week Faculty Development Programme on Big Data Analytics 4-9 Feb, 2019 at Gautam Buddha University, Greater Noida U.P. |
| **30** | Two weeks Refresher Course on Matlab 12-24 Oct, 2018 at SMVDU, (J&K). |
| **31** | Attended Refresher Course on Electronics, Electrical and Communication Engineering at University of Hyderabad, Telangana (17-01-2018 to 05-02-2018)  |
| **32** | Attended 57th general Orientation course at Academic Staff College University of Kashmir |
| **33** | Antenna Design, Communication and Signal Processing Techniques for 5G Networks and IOT, Motilal Nehru Institute of Technology, Allahabad (U. P), 27 Feb, -04 March, 2017 |
| **34** | Six days work shop on Multimedia Signal Processing at Department of Electronics Engineering, Aligarh Muslim University, Aligarh 7- 13 Feb. 2011 |
| **35** | Antenna Design, and Communication and for 5G Networks and IOT, Motilal Nehru Institute of Technology, Allahabad (U. P), 22 Sep, -27, Sep, 2017 |
| **36** | Advanced vocational training in Telecommunication from 04-02-2013 to 01-03-2013, Jabalpur (M.P) |
| **37** | VLSI, Design and Modelling Course at National Institute of Technology, Srinagar, 24th March to 5th April, 2008. |

**Ph. D, M. Phil and M. Tech Awarded/Under Supervision**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Name of the Scholar** | **Programme** | **Field** | **Supervision** | **Status** |
| 1 |  | **Ph. D**  |  |  |
|  | Mr. Mehboob ul Amin | Ph. D | Wireless Communications | Supervision | Awarded |
| 2 | Miss. Sakeena Akhter | Ph. D | Speech Processing | Supervision | Awarded |
| 3 | Mr. Zaffar Iqbal | Ph. D | Wireless Communications | Supervision | Awarded |
| 4 | Miss Shazia Ashraf  | Ph. D  | Antenna Engineering | Supervision  | Awarded |
| 5 | Miss. Sumina Sidiq | Ph. D | Wireless Communications | Supervision | Awarded |
| 6 | Mr. Zahid A. Bhat | Ph. D | RF Engineering | Supervision | Awarded |
| 7 | Miss. Farhana Mustafa | Ph. D | Wireless Communications | Supervision | Awarded |
| 8 | Mr. Altaf Ahmad Balkhi | Ph. D | Wireless Communications | Supervision | Awarded |
| 9 | Mr. Nazir A. Loan | Ph. D | Signal Processing | Co- Supervision | Awarded |
| 10 | Mr. Nasir A. Hurrah | Ph. D | Signal Processing | Co- Supervision | Awarded |
| 11 | Miss. Umhara Khan | Ph. D | Bio- Medical Wearables | Supervision | Awarded |
| 12 | Miss. Subah Amin | Ph. D | Wireless Communications | Supervision | Submitted |
| 13 | Miss. Jaipreet Kour Wazir | Ph. D  | Machine Learning | Supervision  | Undergoing |
| 14 | Miss. Asma Nazir | Ph.D | Material Sciences | Supervision | Undergoing |
| 15 | Miss Iram Abrar | Ph. D | Blockchain | Supervision | Undergoing |
| 16 | Miss Nareen Jan | Ph. D | RF Engineering | Supervision | Undergoing |
| 17 | Mr. Gulzar Ahmad | Ph. D | RF Engineering | Supervision | Undergoing |
|  |  |  |  |  |  |
|  |  |  **M. Phil**  |  |  |
|  |  |  |  |  |  |
| 18 | Miss. Jaipreet Kour Wazir | M. Phil  | Multi-rate Receivers  | Supervision | Awarded  |
| 19 | Miss. Sakeena Akhter | M. Phil  | Speech Processing  | Supervision | Awarded |
| 20 | Mr. Jehangir A. Akhoon |  M. Phil  |  Signal Processing  | Co- Supervision  |  Awarded  |
|  |  |  |  |  |  |
|  |  | **M. Tech**  |  |  |
|  |  |  |  |  |  |
| 21 | Mr. Faheem Ahmad | M. Tech | Resource Allocation | Supervision | Awarded |
| 22 | Mr. Tanweer Gazi | M. Tech | Antenna design | Supervision | Awarded |
| 23 | Mr. Sakib Sofi | M. Tech | Buttler Matrix | Supervision | Awarded |
| 24 | Mr. Zeeshan Ahma**d** | M. Tech | SIW filters | Supervision | Awarded |
| 25 | Miss Madhia Showkat | M. Tech | Beamforming | Supervision | Awarded |
| 26 | Shahid Bashir Hajam | M. Tech | Metamaterials | Supervision | Awarded |
| 27 | Faizan Tariq Beigh | M. Tech | RF-MEMS | Supervision | Awarded |
| 28 | Ashfaq Mehmood | M. Tech | Optical Systems | Supervision | Awarded |
| 29 | Abdul Basit Malik | M. Tech | Reconfigure Antenna | Supervision | Awarded |
| 30 | Tabiya Feroze | M. Tech | Channel Modelling | Supervision | Awarded |
| 31 | Jasiya Bashir | M. Tech | Cognitive 5G Networks | Supervision | Awarded |
| 32 | Humira Ayoub | M. Tech | Nature Inspired Algorithms | Supervision | Awarded |
| 33 | Insha Majeed | M. Tech | Massive MIMO  | Supervision | Awarded |
| 34 | Irfan Gulzar Dar | M. Tech  | NOMA Networks  | Supervision | Awarded |
| 35 | Sadaf Ajaz Khan | M. Tech | Cognitive Radios  | Supervision | Awarded |
| 36 | Aaquib Rafiq | M. Tech | RADAR Systems  | Supervision | Awarded |
| 37 | Tanzeela Ashra | M. Tech | Beamforming  | Supervision | Awarded |
| 38 | Miss Faiqa Khan | M. Tech | Cognitive Radios  | Supervision | Awarded |
| 39 | Miss. Ashna | M. Tech | IRS Assisted Cognitive Radio | Supervision | Awarded |
| 40 | Mr. Bashart Ali | M. Tech | Reconfigurable Antennas | Supervision | Awarded |
| 41 | Sabreena Javeed | M. Tech | Meta-meterials  | Supervision | Awarded |
| 42 | Nareen Jan | M. Tech | Energy Harvesting  | Supervision | Awarded |
| 43 | Huseena Mansoor | M. Tech | Cell free Massive MIMO | Supervision | Awarded |
| 44 | Asmat Ara | M. Tech | Fractal Antenna  | Supervision | Awarded |
| 45 | Bisma Qadir | M. Tech | D2D Communications | Supervision | Awarded |
| 46 | Mantasha | M. Tech | Filtena  | Supervision | Awarded |
| 47 | Jehangir Hameed lone | M. Tech | Wearable Devices  | Supervision | Awarded |
| 48 | Mohammad Zeeshan Dar | M. Tech  | Reconfigure Antennas  | Supervision | Awarded |
| 49 | Rafi Jan | M. Tech | RF Sensors  | Supervision | Awarded |
| 50 | Iymann Hassan Bhat | M. Tech | Cell free Massive MIMO  | Supervision | Awarded |
| 51 | Mehreen Muzaffar | M. Tech | RF Sensor | Supervision | Awarded |
| 52 | Shah Mohsina | M. Tech | Wearable Devices  | Supervision | Awarded |
| 53 | Aayat Afridi | M. Tech | Massive MIMO  | Supervision | Awarded |
| 54 | Naweerah Nazir | M. Tech | RF Sensors  | Supervision | Awarded |
| 55  | Saheefa Farooq  | M. Tech  | RF Sensors  | Supervision | Awarded  |
| 56 | Zahid Lateef Malik  | M. Tech  | Antenna design  | Supervision  | Awarded  |
| 57 | Bisma Bashir  | M. Tech  | Energy Harvesting  | Supervision  | Awarded  |

* In addition to above as many as Hundred (100) M. Sc, M. Tech and B. Tech level projects have been completed under my supervision, having the distinction of guiding more number of M. Sc, B. Tech and M. Tech projects in the department

**Extension and Expert Lectures Delivered**

|  |  |
| --- | --- |
| **1** | Delivered an invited talk on “Introduction to AI for agriculture” organized by Intel AI and NITTR Chandigarh on 1st May, 2025.  |
| **2** | Delivered an invited talk on “Problem Scooping for AI projects” organized by Intel AI and NITTR Chandigarh on 1st May, 2025 |
| **3** | Delivered an invited talk on “Data and its types” organized by Intel AI and NITTR Chandigarh on 2nd May, 2025.  |
| **4** | Delivered an invited talk on “Project development in AI” organized by Intel AI and NITTR Chandigarh on 2nd May, 2025 |
| **5** | Delivered an invited talk on “Emerging trends in Medical diagnostics” in Atal Innovation Mission collaborated ATL programe on 18th Dec, 2024.  |
| **6** | Delivered an invited talk on “Microwave Imaging for Thorax Monitoring” in Atal Innovation Mission collaborated ATL programe on 28th Dec, 2024 |
| **7** | Delivered an invited talk on “Microwave Imaging for body fluid monitoring” in Atal Innovation Mission collaborated ATL programe on 1st jan, 2025 |
| **8** | Delivered an invited talk on “Generations of Mobile Communications” in Atal Innovation Mission collaborated ATL programe on 1st Feb, 2025 |
| **9** | Delivered an invited talk on “Computer Vision for agriculture” in Atal Innovation Mission collaborated ATL programe on 10th Feb, 2025 |
| **10** | Delivered an invited talk on “EEG Signals” in Atal Innovation Mission collaborated ATL programe on 12th Feb, 2025 |
| **11** | Delivered an invited talk on “Innovation and Entrepreneurship” in Atal Innovation Mission collaborated ATL programe on 15th Feb, 2025 |
| **12** | Delivered a invited Talk on “Integrating Electromagnetic fields for precise disease detection and Localization in International Symposium on semiconductor materials and devices-2014 hosted and organized by Department of Physics, University of Kashmir from 04-09-2024 to 06-09-2024 |
| **13** | Delivered a invited Talk on “Beamforming Antennas for RF and Communications” on India Space day at BGSBU on 23rd August, 2024. |
| **14** | 1. Delivered a Invited Talk “Emerging Electronics and Bio-Medical Imaging” in Refresher Course in Sciences at Malviya Mission Training Centre, University of Kashmir on 22nd July, 2024.
 |
| **15** | Delivered a Lecture on “Medical Applications of Electromagnetic waves” on National Science Day organized by Department of Pharmaceutical Sciences, University of Kashmir, on 5th March, 2024 |
| **16** | Delivered a Lecture on “Critical Thinking and Innovations in Medical Diagnostics” at CIEEE, Institute of Technology, Zakura Campus University of Kashmir on 6th March, 2024 |
| **17** | Delivered a Lecture on “***Machine Learning driven Intelligent Reflecting Surfaces for Future Communications on 9th May, 2023***” in Ten (10) Days Online FDP on Application of Applied Signal Processing, Communications and Devices for IoT driven e-Health Care” Jointly Organized by EICT Academy NIT Warangal - Telangana and Department of Electronics and IT, University of Kashmir- Srinagar |
| **18** | Delivered a Lecture on “***5G Vision and D2D Communications: Internet of Health Things (IoHT***)” on in Ten (10) Days Online FDP on Application of Applied Signal Processing, Communications and Devices for IoT driven e-Health Care” Jointly Organized by EICT Academy NIT Warangal - Telangana and Department of Electronics and IT, University of Kashmir- Srinagar |
| **19** | 1. Delivered a lecture on Importance of Communications in the modern world at Govt. Degree College Uri (J&K), India on 28th March, 2022.
 |
| **20** | 1. Delivered a lecture on emerging Technologies & Technopreurship at Govt. Degree College Uri (J&K), India on 10th July, 2023
 |
| **21** | 1. Delivered a Talk on Two days International Conference on Electronic and Computational Multidisciplinary Advances: on 5G and B5G Vision: D2D Communications for Internet of Medical Things (IoMT) organized by SP College from 9th Nov. 2022 to 10th Nov. 2022
 |
| **22** | Presented a paper in the International Conference on 3rd International Online Conference on emerging Trends in Multidisciplinary Research on the paper “efficient call management between Congested neighbouring cells using Fuzzy Logic “ ETMDR JAN-20-22, 2022 Organized by Advanced Studies and Research Centre, Poornima University Jaipur. |
| **23** | Presented a paper in the One Day Symposium on The Role of Blockchain in Disaster Management on June 13, 2023 Organized by Computer Society of India, Kolkata Chapter In Collaboration with The Institution of Electronics and Telecommunication Engineers, Kolkata Centre Birla Institute of Technology, Mesra, Patna Campus. |
| **24** | Presented a paper Cultural Heritage Copyright Protection: A blind and robust watermarking technique for heritage images in the 7 th International Conference for Convergence in Technology (I2CT) 7 th – 9 th April 2022 organized by IEEE Bombay Section. |
| **25** | 1. Delivered a lecture in Two Weeks Research Methodology. Organized by Department of Environmental Sciences, dated 31March - 03 April -2021.
 |
| **26** | 1. Delivered a lecture in AICTE-ISTE Orientation/ Refresher programme on " Embedded Systems". Organized by AICTE, SSM Engineering College, 01-05 May, 2021.
 |
| **27** | 1. Delivered a lecture in AICTE-ISTE Orientation/ Refresher programme on " Embedded Systems". Organized by AICTE, SSM Engineering Colege, 30 - 03-2021 to 31-03-2021.
 |
| **28** | Presented a paper in 2nd International Conference on Computing, Communication and Cyber-Security IC4S-2020 on the paper “Compact Millimetre Wave Low Cost Ka-band Antenna for portable 5G Communication Gadgets” organized by Department of Electronics and Communication Engineering, Krishna Engineering College, Ghazi Abad , India 3rd -4th Oct, 2020. |
| **29** | 1. Delivered Expert lecture onCommunication systems: “From IG to 5G**”** at SSM College of Engineering” 15-09-2018.
 |
| **30** | 1. Delivered Expert lecture on role of “Communication systems in modern life State institute of Education24-03-2019
 |
| **31** | Delivered Expert lecture on **“**Electromagnetics and its Applications in Wireless Communications” at SSM College of Engineering 01-07-2015 |
| **32** | 1. Delivered Expert lecture on “Electromagnetics and its Applications in Wireless Communications” at SSM College of Engineering 01-07-2015
 |
| **33** | Delivered Expert lecture on “Applications of CDMA in Wireless Communications” Govt Women’s Polytechnic College Bemina organized by NITTTR, Chandigarh |

**CONFERENCES/SEMINARS/SYMPOSIUM**

|  |  |
| --- | --- |
| 1 | Attended Two day Symposium on AI for Future digital workforce from 29th -30th Jan, 2025 at Intel Office Bangluru |
|  | Presented a paper in “One Day Symposium on The Role of Blockchain in Disaster Management” June 13, 2023 organized by Computer Society of India, Kolkata Chapter, In Collaboration with The Institution of Electronics and Telecommunication Engineers, Kolkata Centre Birla Institute of Technology, Mesra, Patna Campus |
|  | Presented a paper in 2024 IEEE International Conference on Women in computing at INCOWOCO 2024 at Symbiosis Institute of Computer studies and research on 15-16th Nov. 2024 on the paper “Speech separation in time domain using Autoencoders”  |
|  | Presented a paper titled “EEIRS: A New Energy Efficient Design of Secure Intelli-gent Reflecting Surface Assisted GFDM-NOMA Systems” in Third International Conference on Information Security, Privacy and Digital Forensics (ICISPD 2024), jointly organized by National Institute of Technology Goa (NIT Goa), National Institute of Technology Surat (NIT Surat) and National Forensic Sciences University (NFSU), during 18-19 October 2024 at National Institute of Technology Goa.  |
|  | Presented a paper titled “A new C-Slotted Antenna for Sub 6-Ghz and Radar applications” at the 21st IEEE INDICON 2024 held at IIT Kharagpur rom 19-21 December 2024  |
|  | Presented a paper titled “Robust Watermarking Scheme for Digital Image Authentication and Security” at the 21st IEEE INDICON 2024 held at IIT Kharagpur rom 19-21 December 2024 |
| 4 | Presented a paper “An Improved RF Sensor for Detection of Variation in Different Body Fluids," *2024 in IEEE Applied Sensing Conference (APSCON)*, Goa, India |
| 3 | Presented a paper Design and Optimization of a Multiband Reconfigurable Microstrip Patch Antenna for Sub 10-GHz Applications," *2023 10th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)*, Gautam Buddha Nagar, India. |
| 4 | Presented a paper Interdigitated Wearable Antenna For Brain-Stroke Detection," *2023 10th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)*, Gautam Buddha Nagar.  |
| 5 | Presented a paper Implementation of SRR Loaded Frequency Reconfigurable Antenna for 5G and IOT wireless Applications” [**10th IEEE UP Section** International Conference on Electrical, Electronics and Computer Engineering](https://cmt3.research.microsoft.com/UPCON2023)1st - 3rd December 2023. |
| 6 | Presented a paper on Design of a Semi-Circular Finger Shaped Antenna with Metamaterial Loaded Ground for Brain Tumor Detection and Localization," *2023 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)*, Ahmedabad, India, 2023.  |
| 7 | Presented a paper on A Meandered T-Slot Incorporated Patch Antenna for Microwave Thorax Monitoring," *2023 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)*, Ahmedabad, India, 2023. |
| 8 | Presented a paper on Dual-Band Slot Antenna for Millimeter Wave Communication Accepted for publication in 3rd International Conference on Computational Electronics for Wireless Communications-2023 (ICCWC-2023), December 22-23, 2023. |
| 9 | Presented a paper on Maximization of Achievable Sum Rate and Improvement in Outage Probability in Intelligent Reflecting Surface (IRS) Driven NOMA Networks," *2023 IEEE 4th Annual Flagship India Council International Subsections Conference (INDISCON)*, Mysore, India, 2023. |
| 10 | Presented a paper on A New Circular Slot Based Dual Frequency Band Reconfigurable Antenna for 5G and Wi-Fi Applications," 2022 5th International Conference on Multimedia, Signal Processing and Communication Technologies (IMPACT), Aligarh, India, 2022 |
| 11 | Presented a paper on Resource Allocation in CR networks using Beamforming Optimization," 2022 5th International Conference on Multimedia, Signal Processing and Communication Technologies (IMPACT), Aligarh, India, 2022. |
| 12 | Presented a paper on Metamaterial Inspired Antenna for Biomedical Applications," 2022 5th International Conference on Multimedia, Signal Processing and Communication Technologies (IMPACT), Aligarh, India, 2022. |
| 13 | Presented a paper on High Gain Antenna Design of a Rectenna System for RF Energy Harvesting in Smart City Applications," 2022 5th International Conference on Multimedia, Signal Processing and Communication Technologies (IMPACT), Aligarh, India, 2022 |
| 14 | Presented a paper on A New Low Power Bi-Stable RF-MEMS Based Energy Harvester for NOMA Driven Industrial Internet of Things (IIoT)," 2022 5th International Conference on Multimedia, Signal Processing and Communication Technologies (IMPACT), Aligarh, India, 2022. |
| 15 | Presented a paper on Fractal Antenna Design with Slotted Partial Ground for Breast Tumor Detection," 2022 5th International Conference on Multimedia, Signal Processing and Communication Technologies (IMPACT), Aligarh, India, 2022. |
| 16 | Presented a paper on Cultural Heritage Copyright Protection: A blind and robust watermarking technique for heritage images” 7 th International Conference for Convergence in Technology (I2CT) 7 th – 9 th April 2022 IEEE Bombay Section.  |
| 17 | Presented a paper on “Mobile Traffic Management in Congested Cells using Fuzzy Logic in “3rd International Conference on Emerging trends in Multidisciplinary research “ETMDR-2022” organized by Advanced studies and research Centre, Poornima University, Jaipur. |
| 18 | Presented a paper on Efficient Call Management between Congested Neighbouring Cells using Fuzzy Logic IRA-2022: Second International Conference on “Innovation in IoT, Robotics, and Automation 2022" Moradabad, India, January 28-29, 2022. |
| 19 | Presented a paper on A Novel High Gain Two Port Antenna for Licensed and Unlicensed Millimetre-Wave Communication, Chennai., *IEEE 2020 International Conference on Emerging Trends in Information Technology and Engineering), (ic-ETITE),* 24-25 Feb., 2020. |
| 20 | Presented a paper on Bit Error Rate (BER) Improvement of Multiple Input Multiple Output Orthogonal Frequency Division Multiplexing (MIMO-OFDM) System Using Bit Level Scrambling.; **Javaid Ahmad Sheikh**, Uzma, Shabir A. Parah, G. Mohiuddin Bhat.; 2015 *Annual IEEE India Conference (INDICON).* |
| 21 | Presented a paper in CODIS 2012  |
| 22 | Presented a paper in OBCON 2011 Tamil Nadu  |
| 23 | International Conference on Advances in Communication Technology, K.C. College of Engineering, and I.T, Nawanshahr, Punjab 15-17th Dec, 2006 |
| 24 | 1. Presented a paper on AICTE Sponsored National Seminar on Mobile Computing, Baba Gulam Shah Badshah University, Rajouri, J&K, 27-29th Nov, 2008 5th J & K Science Congress University of Jammu from Feb. 8-10, 2009
 |
| 25 | 1. 3rd J&K Science Congress, University of Jammu, Jammu Kashmir from jun. 26 to 28
 |
| 26 | 1. 2nd J & K Science Congress, University of Kashmir, Srinagar, (J&K) 25th to 27th July, 2006
 |
| 27 | 3rd J& K Science Congress, University of Jammu, (J&K) 26th to 28th Feb |
| 28 | 1. 4th J& K Science Congress, University of Kashmir, Srinagar, (J&K) 12th to 14th Nov. 2008
 |
| 29 | 1. 6th J& K Science Congress, University of Kashmir, Srinagar, (J&K) 2nd Dec. 4th Dec. 2011
 |
| 30 | 1. 8th J& K Science Congress, University of Kashmir, Srinagar, (J&K) Sep. 2012
 |
| 31 | 1. 9th J & K Science Congress and Regional Science Congress, University of Kashmir, Srinagar, 1- 3, Oct. 2013
 |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

**REVIEWING ACTIVITIES**

* International Journal of Science and Technology (Thailand)
* International Journal of Electronics (UK)
* International Journal of Communication Systems (UK)
* Journal of Bio-medical Electronics, Elsevier
* IEEE Access.
* King Faud Journal of Electrical Engineering and Computers.
* IEEE Transactions on Wireless Communications
* IEEE Transactions on Communications.
* European Transactions on Emerging Telecommunications.

Journal of Communications.

**Member of Professional/ Scientific Bodies**.

1. National Assignment: Appointed as Regional Mentor of Change by NITI Ayog Govt. of India under Atal tinkering Lab scheme.
2. Panel Member National Book Trust, CSTT MoE. Govt. of India
3. Panel Member ATL projects NITI Aayog Govt. of India
4. Member, International Computer Science and Engineering Society (ICSES)

 ICSES Manuscript Management System (IMMS), Membership **ID= 37551**

1. Member: The Society of Digital Information and Wireless Communications (SDIWC), Membership **ID: 34328**.
2. Member Internet Society: Membership **ID: 2241568**.
3. Member Computer Science Teachers Association (CSTA), **USA**.
4. Member International Association of Engineers (IAENG), Hong Kong, China. Membership ID: **Member No: 118377**
5. Member Global Professors Society: Membership **ID: 573**
6. Member American Communications Association. Membership ID: **U02T7HZ2W6N**
7. Member for affiliation of various Hardware courses with NIELIT, New Delhi, Govt. of India, Ministry of Communications, and Information Technology. Expert **No: 3472**

**SESSIONS CHAIRED**

1. Chaired a session in 13th JK science congress organized by University of Kashmir.
2. Chaired a special technical session in the Fifth International Conference on Multimedia, Signal Processing and Communication Technologies Organized by Department of Electronics Engineering Aligarh Muslim University, Aligarh and IEEE UP Section and IEEE USA from 26th Nov. to 27th Nov. 2022.
3. Chaired a session in SEEDS-2018 organized by Department of Electronics and Instrumentation Technology University of Kashmir. ϖ Chaired a session in SEEDS-2017 organized by Department of Electronics and Instrumentation Technology University of Kashmir.
4. Chaired a session in SEEDS-2016 organized by Department of Electronics and Instrumentation Technology University of Kashmir.
5. Chaired a session in COMMUNE-2015 organized by Department of Electronics and Instrumentation Technology University of Kashmir.
6. Hospitality and Protocol chair COMMUNE-2015 2.
7. Hospitality chair SEEDS-2015 3.
8. Hospitality chair SEEDS-2016 4.
9. Hospitality chair SEEDS-2017 4.
10. Hospitality chair SEEDS-2018 5.
11. Member of Hospitality and technical committees of 13th JK Science Congress 2018

**Institute Committee Members**

1. Member Proctorial Committee for 19th University Convocation 2021.
2. Member Certificate and Gold Member Committee 20th Convocation 2023
3. Member Hostel Policy Committee University of Kashmir
4. Member organizing G20 at University of Kashmir
5. Member of various committees in DIQA
6. Member of various committees in Hostel sector
* Dr. Javaid Ahmad Sheikh was awarded as a best teacher by University of Kashmir in 2023.
* Dr. Javaid Ahmad Sheikh received the Thirteen (13)  best paper awards at IEEE and Springer Conferences
* Dr Javaid has completed a Summer Research Faculty Fellowship at IIT Delhi .
* Dr. Javaid Ahamd Sheikh has achieved the feat of appointment as Regional Mentor of Change by NITI Aayog, Govt. of India
* Dr. Javaid Ahmad Sheikh is also working as Nodal officer NITI ATL Sarthi NITI Aayog Govt. of India.
* Dr. Javaid Ahmad Sheikh is working as Member Telecom Centers excellence of India
* Dr. Javaid Ahmad sheikh is working as Chief Editor Current Wireless Communications, Bentham Publications (Scoups Indexed Journal)
* Dr. Javaid Ahmad Sheikh has worked as Editor American Journal of Computers and Electrical Engineering
* Dr. Javaid Ahmad Sheikh has been appointed as Executive Committee of IEEE AP-S/ CRFID Chapter of Delhi Section.
* Dr. Javaid Ahmad Sheikh has been selected as Project Evaluator in School Innovation Marathon by Ministry of Education, Govt. of India, AICTE, and NITI Aayog.
* Dr. Javaid Ahmad Sheikh has been appointed as panel panel by National Book Trust and Commision for Scientific Technical Terminology, Govt. of India.
* Dr. Javaid Ahmad Sheikh is the panel member of School innovation programs under Atal Tickreing Labs, NITI Aayog Govt. of India.
* Dr. Javaid Ahmad Sheikh received Startup grant by University of Kashmir under Skill development programe for which startup has been initiated and prototype is ready.
* Dr. Javaid Ahmad Sheikh has the distinction of working as Warden in various hostels of the University and has played a vital role in the development of hostel sector in the university
* Dr. Javaid Ahmad Sheikh played a lead role in framing MoU between University of Kashmir and Intel India
* Dr. Javaid Ahmad Sheikh has the distinction of organizing maximum number of Workshops, Faculty Development programmes and seminars in the Department.