

Dr. Ravi Kumar

Associate Professor, T & P Coordinator

Education: B.E., M.Tech.(Honours), Ph.D

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Contact No. : Ext. - 123

Areas of Interest: His research interest extent to number of areas like MIMO Communication Systems, Wireless Communication, Advance communication systems, Microwave Integrated circuits, Advanced Microstrip Antenna Designs and Image Processing.

Brief Profile:

Dr. Ravi Kumar did his Ph.D. from Department of Electronics and Communication Engineering, Jaypee University of Engineering & Technology, Guna in year 2013 with the specialization in MIMO Communication Systems and Smart Antennas. Before completion of his doctorate, he did his M.Tech. with honors from Madhav Institute of Technology & Science, Gwalior in Electronics and Communication with specialization in Microwave Engineering. He completed his Graduation with Bachelor of Engineering degree in Electronics and Communication Engineering from Rajiv Gandhi Technical University, Bhopal. He has Eight months Research Experience as Project Associate in Radio and Science Division(RASD) department at National Physical Laboratory, New Delhi where his topic was "Post Earthquake Rescue System and Real-time Data Acquisition" and one of the module was completed by him on Real-time Data Acquisition for the above given DST sponsored project under the Guidance of Scientist Dr.P.K.Banarjee (scientist-F).

He has been serving in the field of teaching at Jaypee Institute of Engineering since August, 2005 and before joining here he had worked as lecturer at Madhav Institute of Technology & Science, Gwalior for one year. He has also remained at Managerial Post in Pentasoft Technologies Ltd., Bhopal Centre for one Year and four months. He had also been called by the Centre for Development of Telematic (C-DOT) for the project work of Eight months during his Post-Graduations.

He is a SENIOR MEMBER of Institute of Electrical and Electronics Engineers (IEEE), FELLOW MEMBER of Institute of Electronics and Telecommunication Engineers (IETE) and various other professional bodies. He has guided several undergraduate and graduate students for their research-based project works. He has published several Research papers in referred Journals and conferences at International and National level including SCI and Scopus indexed journals. Moreover, he has twelve granted design patents and copyrights under his National and International IPR activities and various published and pending patents. He is also editorial board member of many international journals and reviewer of various IEEE, Springer, Elsevier, Wiley and other international publishers journals. He received IEEE Best Paper award in 2012 and currently elected as co-opted Executive Committee member of IETE, MP subsection. His research interests include Advanced Communication Systems using AI and ML, Advanced Antenna Design, Biomedical Signal and Image Processing.

Awards, Achievements and Recognitions

1. "BEST PAPER AWARD" in the IEEE International conference organized by the IEEE computer society, Bangalore Section and ACEEE with the association of IDES (Institute of Engineers, Doctors and Scientist) in MNCApps, Bangalore, 2012.

2. Awarded with Senior membership of IEEE.
3. Awarded with Fellow membership of IETE.
4. Co-opted as Executive Committee Member of IETE Madhya Pradesh Subsection, 14th July 2020.
5. Called by Centre for Development of Telematics (C-DOT) for Eight months Technical project

IPR activities (Patents and Designs Granted)

Granted

International

1. An Artificial Intelligence based system for detection of breast cancer in Human Body (German Patent) (Grant detail: 20 2022 100 092 (IPC: G16H 50/20), Date of Filing: 07/01/2022, Date of Publication: 21/02/2022)
2. An Intelligent System for Weather Monitoring and Natural Disasters Prevention using IoT and AI and ML (German Patent) (Grant detail: 20 2022 100 460 (IPC: G08B 21/10), Date of Filing: 27/01/2022, Date of Publication: 15/02/2022)
3. Intelligent Street Light ON/OFF System based on the Object Detection (German Patent) (Grant detail: 20 2022 101 198 (IPC: G05D 25/02), Date of Filing: 03/03/2022, Date of Publication: 11/04/2022)
4. Solar PV Power Integrated Smart Grid based Energy Management System (Canadian Copyright) (Copyright Registration No.: 1196634, Date of Registration: 05/10/2022, Certificate Issuance Date: 21/11/2022)
5. Modeling and Analysis of Data Trading in Financial Organization based on Blockchain Market in IoT Networks (Canadian Copyright) (Copyright Registration No.: 1197057, Date of Registration: 21/10/2022, Certificate Issuance Date: 24/11/2022)
6. Artificial intelligence embedded device for vehicle security (UK Design Grant) (Design number: 6268897, Registration Date: 16/03/2023, Date of Grant: 28/03/2023)
7. A Wireless Network Repeater (UK Design Grant) (Design number: 6298491, Registration Date: 22/07/2023, Date of Grant: 01/08/2023)

Indian

7. A Pen for Converting Text into Speech (Design Patent) (Grant detail: 356582-001 (Class 14-02), Date of Filing: 12/01/2022, Date of Publication: 18/03/2022)
8. Wearable devices for vital signs monitoring of pregnant Women (Design Patent) (Grant detail: 357096-001 (Class: 24-01), Date of Filing: 21/01/2022, Date of Publication: 01/04/2022)
9. A System to Detect the Efficiency of Employees in an Office Environment (Design Patent) (Application Number: 360668-001 (Cbr No.: 214746), Date of Publication: 17/06/2022)
10. RFID Enabled Animal Tracking Strap (Design Patent) (Application Number: 365289-001 (Cbr No.: 202249), Date of Publication: 20/01/2023)
11. Portable Device for Obstacle Alerting in Indoor Environment for Visually Impaired (Design patent) (Application number: 365368-001 dtd. 3/6/2022 (Cbr No.: 202305), Date of Publication: 17/03/2023)
12. MIMO Communication Device (Design Patent) (Application number: 378767-001 dtd. 06/02/2023 (Cbr No.: 201689), Date of Publication: 12/05/2023)

Published and Communicated

1. Sensor Based Intelligent Robotic Arm to Vaccinate People Against COVID-19 (Application number: 202141026824, Date of Publication: 02/07/2021, Patent Journal No. 27/2021)
2. Smart Protective Personal Equipment (PPE Kit) for Healthcare workers during COVID-19 Pandemic (Application number: 202141028360, Date of Publication: 09/07/2021, Patent Journal No. 28/2021)

3. Sensor Based Artificial Nervous System to Assist Paralyzed People. (Application Number: 202111029975, Date of Publication: 30/07/2021, Patent Journal No. 31/2021)
4. Intelligent Wearable Sweat Sensor Based Device for Monitoring and Recommending Personal Physical Fitness (Application Number: 202111032293, Date of Publication: 06/08/2021, Patent Journal No. 32/2021)
5. Skin Cancer (Melanoma) Detection and Recommender System using Deep Learning (Application Number: 202141034599, Date of Publication: 06/08/2021, Patent Journal No. 32/2021)
6. Sensor Based Intelligent Wearable Helmet for Early Detection of Stroke in Patients (Application Number: 202141044803, Date of Publication: 05/11/2021, Patent Journal No. 45/2021)
7. Falling Cat inspired Intelligent Quadrupedal Robot to Assist People during Risky Mountain Trekking (Application Number: 202141048690, Date of Publication: 05/11/2021, Patent Journal No. 45/2021)
8. Intelligent Agriculture- Smart IOT System to Assist Farmers in Effective Decision-Making using Data Science (Application Number: 202141046585, Date of Publication: 25/11/2021, Patent Journal No. 45/2021)
9. Wearable Sweat Sensor based Intelligent Device to Detect the Stress Levels of a Patient by Monitoring Cortisol and Blood Glucose Levels (Application Number: 202141053048, Date of Publication: 3/12/2021, Patent Journal No. 49/2021)
10. Intelligent Robotic Exoskeleton and Brain Sensing Headband to enable Paralyzed People to Locomote (Application Number: 202241020094, Date of Publication: 15/04/2022, IPC Journal No. 15/2022)
11. A Smart System for Dynamic Threat Assessment and Behaviour-Based Anomaly Detection in IoT Device (Application number: 202321079775, Date of Filing: 24/11/2023, Date of Publication: 29/12/2023, Patent Journal No. 52/2023)

Books and Book Chapter

1. Post Earthquake Rescue System (PEQRS) "A Real Time Post Disaster Rescue System with Data Acquisition", ISBN: 3843313415(HB), ISBN: 978-3843313414 (E-Book), Lambert Academic Publishing, Germany, January, 2012.
2. Fundamental Concepts of Computer Programming, ISBN: 978-93-92992-66-7, Scientific International Publishing House, India, December 2021.(Co-Author: A. ShenbagaBharatha Priya, Prasanalakshmi B, Muddasir Khan)
3. Data Structures using C, ISBN: 978-93-92992-92-6, Scientific International Publishing House, India, Jan 2022.(Co-Authors: J. Seetha, S. Madhusudhanan, Uma Mageswari, S. P. Manikandans)
4. Book Chapter on "Initiatives by Government to Manage the E-waste" published in "E-waste in India: Management, Challenges & Opportunities", Vol-II, pp.65-80. ISBN: 978-93-5529-322-0.
5. Wireless Communication and Networking, ISBN: 978-9355153944, Book River Publisher, India, May 2022. (Co-Authors: Monika Saxena, Virender Khurana, Rakesh Kumar)
6. Book chapter on "Evolution of 5G: Security, Emerging Technologies, and Impact" published in Cognitive Science and Technology, Springer, March 2023. ISBN: 2195-3988 (978-981-19-8085-5). DOI: https://doi.org/10.1007/978-981-19-8086-2_66. (Series Editor: David M.W. Powers, Richard Leibbrandt) (Authors: Varun Shukla, Poorvi Gupta, Manoj K. Mishra, Ravi Kumar, Megha Dixit)
7. Deep Learning for Data Mining: Unsupervised Feature Learning and Representation, ISBN: 9788119534173, Xoffencer Publications, 14th August, 2023. (Authors: Srinivas Rao Adabala, Ravi Kumar, Purvi Makwana, Haewon Byeon)

8. Book chapter on “Applications of Blockchain Technology in Data management: its Security and Transparency” published in Recent Technological Advances in Engineering and Management, CRC Press, 26th September, 2024. ISBN: 9781032872025. (presented in International Conference on Advances in Science, Technology and Management, Male, Maldives, November 24-27, 2023. pp.75-79, CRC Press, January 2024. ISBN: 9781032791845. DOI: <https://doi.org/10.1201/9781003490890>) (Book Editor: Dalia Younis, Ilona Paweloszek, Narendra Kumar, Nino Abesadze, Preeti Narooka) (Authors: Ravi Kumar, Huma Khan, Akash Bagh, S Durga, Chakradhar Padamutham, Arpana Mishra, Helena Fidlerova)(SCOPUS)
9. Book chapter on “Dynamic deployment and traffic scheduling of UPF in 5G networks” published in book “Networks Attack Detection on 5G Networks using Data Mining Techniques”, 16 pages, CRC Press, Taylor and Francis, April 2024. ISBN: 9781032530185. (Book Editor: Sagar Dhanraj Pande, Aditya Khamparia) (Authors: Renato R. Maaliw, Haewon Byeon, Ravi Kumar, Mukesh Soni)

Ph.D. Supervision

Awarded -

1. Sanjeev Kumar (143004)- (Design and Analysis of UWB and MIMO Antennas for Modern Wireless Applications)
2. Devesh Sharma (163A001)- Design and Analysis of Miniaturized UWB and MIMO Antenna for 4G/5G Wireless Technology.(Awarded in 2023)

Memberships in Professional and Honorary Societies

1. Senior Member - IEEE (International Institute for Electrical & Electronics Engineers) - 80652471.
2. Fellow Member - IETE (Institute of Electronics & Telecommunication Engineers) - FM189129.
3. Senior Member - UACEE (Universal Association of Computers and Electronics Engineers)- SNM1009234
4. IAENG (International Association of Engineers) - 118216.
- (v) IACSIT (International Association of Computer Science and Information Technology) - 80345611.

Research Association

1. Advisory Committee Member, 1st International Conference on Recent Developments in Electronics and Communication Systems (RDECS-2022), organized by Department of ECE, Aditya Engineering College, Surampalem, Andhra Pradesh, July 22-23, 2022.
2. TPC Member/Reviewer in 4th International Conference on Machine Intelligence and Signal Processing (MISP 2022) organized by Department of Computer Science and Engineering, National Institute of Technology, Raipur during March 12-14, 2022.
3. TPC Member in Fourth International Conference on Information Systems and Management Science (ISMS 2021) on "Network Security with Data Analytics" , Jointly organized by the faculty of ICT, University of Malta, Malta & Department of CSE, National Institute of Technology, Raipur, India during December 14-15, 2021.
4. TPC member, CNC 2008, Jaypee University of Engineering & Technology, Guna.
5. Editorial Board Member, Blue Ocean Research Journals.(BORJ)
6. Editorial Board Member, Journal of Signal Processing, Journal of Electronic Design Engineering and Journal of Electronics and Communication System by MAT Journals.
7. Editorial Reviewers Board, IEEE Antenna and Wave Propagation Letter (AWPL).
8. Editorial Reviewers Board, IEEE Transactions on Vehicular Technology (IEEE TVT).
9. Editorial Reviewers Board, Springer Wireless Personal Communication(WPC).

10. Editorial Reviewers Board, International Journal of Microwave and Wireless Technologies (IJMWT) by Cambridge University Press.
11. Editorial Reviewers Board, World Academy of Science Engineering and Technology (WASET).

Expert Lecture

- Delivered expert lecture on "Augmentation of MIMO Communication Systems" in IETE zonal seminar organized by IETE MP chapter in collaboration with Department of Electronics Engineering, MITS, Gwalior on May 16-17, 2021.

Other Administrative and Professional Experiences

1. Executive Committee Member, IETE Bhopal Subcenter, during 2020 to present.
2. Warden, Jaypee University of Engineering and Technology, Guna for six years.
3. University Disciplinary Committee, Jaypee University of Engineering and Technology, Guna, 2018 to present.
4. Training and Placement Incharge, Department of Electronics and Communication Engineering, Jaypee University of Engineering and Technology, Guna from July 2014 to 2018 and 2019 to present.
5. Ph.D. Coordinator, Department of Electronics and Communication Engineering, Jaypee University of Engineering and Technology, Guna from July 2019 to August 2020.
6. Mess Coordinator, Jaypee University of Engineering and Technology, Guna for session 2017-18.
7. Member, Ph.D. Interview Panel of ECE Department.
8. Incharge, SSR (Criteria 4) preparatory committee for Accreditation by NAAC.
9. Member, Institute Innovation Council, Jaypee University of Engineering and Technology, Guna since 2022.
10. Fresher's Coordinator of ECE Department, Jaypee University of Engineering and Technology, Guna, 2014.
11. Member, First year Coordination committee. 2021-23.
12. Faculty Incharge, Security wing, Jaypee Youth Club (JYC), Jaypee University of Engineering and Technology, Guna, 2011.
13. Faculty Incharge, Art and Events management wing, Jaypee Youth Club (JYC), Jaypee University of Engineering and Technology, Guna, 2011.
14. Member, Board of Studies, Department of Electronics and Communication Engineering, Jaypee University of Engineering and Technology, Guna.
15. Member, Admission Committee, Jaypee University of Engineering and Technology, Guna.
16. Member, Admission Visit Committee, Jaypee University of Engineering and Technology, Guna.
17. Member, Anti-Ragging Committee, Jaypee University of Engineering and Technology, Guna.
18. Member, National Conference on Communication Systems and Networking (CSN), 2008.
19. Member, 47th Annual National NASA Convention, 2004.

Workshops and Seminars organized

1. Organizing Committee Member in two days IETE Zonal Seminar and ISF Congress on "Next Generation Communication System" organized by IETE Bhopal Center, University Institute of Technology, Shivpuri and Institute of Engineers, Gwalior chapter on 22-23 April, 2023.

2. Organizing Committee Member in one week workshop on “NAAC Accreditation Process” organized by IQAC, Jaypee University of Engineering and Technology, Guna during 25-29th July, 2022.
3. Organizing Committee Member in "Impact Lecture Series 2022" organized by Jaypee University of Engineering and Technology in collaboration with MoE's Innovation Cell on 25th June and 15th July, 2022
4. Organizing Committee Member in two days IETE Zonal Seminar and ISF Congress on "Next Generation Communication System" organized by IETE Bhopal Center, University Institute of Technology, Shivpuri and Institute of Engineers, Gwalior chapter on 22-23 April, 2023.
5. Organizing Committee Member in one week workshop on "NAAC Accreditation Process" organized by IQAC, Jaypee University of Engineering and Technology, Guna during 25-29th July, 2022.
6. Organizing Committee Member in "Impact Lecture Series 2022" organized by Jaypee University of Engineering and Technology in collaboration with MoE's Innovation Cell on 25th June and 15th July, 2022.
7. Advisory Committee Member for 1st International Conference on Recent Developments in Electronics and Communication Systems, organized by ECE department, Aditya Engineering College on 22nd and 23rd July, 2022.
8. Organizing Committee Member for IETE zonal Seminar and ISF Congress in Virtual mode on "Next Generation Communication System", organized by IETE Bhopal Centre, Department of Electronics, MITS Gwalior, Shivpuri Institute of Technology, and IES University during May 16-17, 2021.
9. Delivered department seminar on "Antenna and its Applications" 6th May, 2019 at JUET, Guna.
10. Organizing Committee Member, "World conference on Applied Science, Engineering and Technology", organized by Institute for Engineering Research and Publication, 2- 3rd January, 2018, Goa.
11. Organizing Committee Member, "High Performance VLSI Architecture for Digital Signal Processing Applications: Design and Implementation", organized by MPCST and JUET, Guna, 9-11th September, 2016.

Conferences, Technical visits, Workshops and FDP Attended

1. Five days short term course on “5G/6G Wireless Technologies (WT-2024)”, organized by Department of Electronics and Communication Engineering, National Institute of Technology, Kurukshetra during 17th to 21st April, 2024.
2. Five days FDP on “Hand-on 5G Implementation on MATLAB (5GHM-2024)” organized by bynnant Gyan Knowledge and Skills Private Limited during 26th February to 1st March, 2024.
3. Two weeks FDP on “NEP 2020 Orientation and Sensitization Programme” organized by Malaviya Mission Teacher Training Centre, Devi Ahilya Vishwavidyalaya, Indore (M.P) under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) during 15th to 27th January, 2024.
4. Two weeks workshop on “AR-VR-MR- 2023” organized by Department of Computer Science and Engineering at Jaypee University of Engineering and Technology, Guna during 23rd October to 4th November, 2023.
5. Five days workshop on “National Higher Education Qualification Framework” organized by IQAC Cell at Jaypee University of Engineering and Technology, Guna during 10-15 July, 2023.
6. Seven days FDP on “Wearable Devices for IoT and Microwave Infrastructure” organized by SRM Institute of Science and Technology, Modinagar during 14- 20 February, 2023.
7. Five days FDP on Cyber Security and Digital Forensic organized by Consilio Research Lab in association with Jaypee University of Engineering and Technology, Guna during 12-16 December 2022.

8. Five days workshop on "NAAC Assessment and Accreditation (A&A) Process" organized by Jaypee University of Engineering and Technology, Guna during 25-29 July, 2022.
9. One day online training on IEEE Xplore organized by Jaypee University of Engineering and Technology and EBSCO Information on April 13, 2022.
10. One day training on Microsoft Azure Data Fundamentals organized by Association of Indian Universities and Microsoft Partner on March 30, 2022.
11. IP Awareness/Training program under National Intellectual Property Awareness Mission organized by Intellectual Property Office, India on February 26, 2022.
12. AICTE-ISTE approved Refresher program on "Cryptology and Network Security" organized by Pranveer Singh Institute of Technology, Kanpur during January 7-13, 2022.
13. Two days faculty training certification program on "AI and ML Toolkit in Research Applications" organized by Chandigarh Group of Colleges, Eureka ElectroSoft Solutions Pvt. Ltd. Punjab, IETE Chandigarh, and Institution's Innovation Council of Chandigarh Engineering College, Landran on July 23-24, 2021.
14. One day workshop on "Cyber Security" organized by CETPA Infotech Pvt. Ltd. and BIET Jhansi on July 7, 2021.
15. National webinar on "AI based healthcare Technology" organized by IETE Jabalpur and CSI Jabalpur section on May 20, 2021.
16. National Symposium on "Accelerating Digital Transformation in Challenging Times" organized by IETE New Delhi on May 17, 2021.
17. National webinar on "IOT based Healthcare Technology" organized by IETE Jabalpur and CSE Department, Oriental Institute of Science and Technology, Jabalpur on May 13, 2021.
18. Attended two days Conference on "Next Generation Education Technology for Science and Engineering" organized by IETE MP chapter in association with IEEE MP Subsection, and the Institution of Engineers, India on February 26-27, 2021.
19. National webinar on "NEP 2020: Catalysing research and innovation at HEIs" organized by National Project Implementation Unit, State Project Implementation Unit, UP and BIET, Jhansi on February 13, 2021.
20. One day webinar on "5G- Evolution, Advancements and Applications" conducted by Department of Electronics Engineering, MITS Gwalior on December 21, 2020.
21. One day webinar on "Social Entrepreneurship Swachhta& Rural Engagement" organized by Mahatma Gandhi National Council of Rural Education, Hyderabad and JUET, Guna on October 23, 2020.
22. Short term course on "GNSS & Space Weather" organized by the Discipline of Astronomy, Astrophysics & Space Engineering at IIT Indore from 14th September to September 19, 2020.
23. One day webinar on "The Growth of Women Empowerment in Virtual Era" organized by IEEE MP subsection, IETE Gwalior and Institute of Engineers, Gwalior section on September 13, 2020.
24. One day webinar on "Mental Stress- Causes and Solutions" organized by IEEE MP subsection, IETE Gwalior and Institute of Engineers, Gwalior section on September 13, 2020.
25. One day webinar on "Role of Engineers in Developing Smart Cities in Indian Scenario" organized by Jaypee University of Engineering and Technology, Guna on September 12, 2020.
26. One day webinar on "Engineering Education" organized by IEEE MP subsection, IETE Gwalior and Institute of Engineers, Gwalior section on September 5, 2020.
27. One day webinar on "Future Engineering Education and Research" organized by IEEE MP subsection, IETE Gwalior and Institute of Engineers, Gwalior section on August 23, 2020.
28. Online Short-Term course on "LaTeX: For Everyone and Everything" organized by Level Up during 22nd August to September 6, 2020.
29. Online webinar on "Recent Trend on Antenna" organized by Design Innovation Centre and Community Innovation Co-Creation Centre, Gujrat Technological University on August 21, 2020.

30. One day Webinar on "Issues Related to Covid-19" organized by IEEE MP Subsection, IETE Gwalior and Institute of Engineers, Gwalior on August 16, 2020.
31. One-week national Faculty Development Program on "3D EM Simulation using CST Studio Suite" organized by Department of ECE, KLEF, Vaddeswaram, Guntur in association with Jyoti Electronics, Hyderabad and CSI Koneru chapter during June 22-26, 2020.
32. Online training of IEEE Remote Access: Strategies and Tips for Organizing a "Virtual Learning Environment" organized by IEEE and JUET, Guna on May 7, 2020.
33. One week Faculty development program on "VLSI Design using Open source - Methodologies & Challenges in Digital Integrated Circuits and Memory design" organized by E&ICT Academies of IIT (Roorkee, Guwahati), MNIT Jaipur, NIT Patna, 16th Dec.-20th December 2019.
34. Three days Faculty Development Program on "Student Induction" organised by All India Council for Technical Education (AICTE), JUET, 16th Sept.- 18th September, 2019.
35. One week Faculty development program on "Deep Learning and Applications" organised by E&ICT Academies of IIT (Roorkee, Guwahati), MNIT Jaipur, NIT Patna and IIITDM, Jabalpur, 27th May- 31st May, 2019.
36. Two days national workshop on "Application of MATLAB in Science and Engineering" organized by department of Electronics and Communication Engineering department, JUET, Guna, 11-12th February, 2017.
37. Three days national workshop on "High Performance VLSI Architecture for Digital Signal Processing Applications: Design and Implementation" organized by MPCST and JUET, Guna, 9-11th September, 2016.
38. Three days national workshop on "VLSI Design" organized by JUET, Guna, 14-16th July, 2015.
39. Three days national workshop on "Advancements in network communication & security (ANCS-2013)", organized by DRDO, MPCST, CSI at JUET, Guna, 19-21st December, 2013.
40. One day workshop on "Ethical Hacking" by Ankit Fadia organized at JUET, Guna, 21st April, 2013.
41. One week National workshop on "Application oriented Networking" organized by IUCEE at Jaypee University of Engineering and Technology, Guna, 9th - 13th July, 2012.
42. One week National workshop on "Image Processing and Digital Communication" organized by IUCEE at Jaypee University of Engineering and Technology, Guna, 6th - 10th June, 2011. (by Prof. Gaurav Sharma, Rochester University, USA).
43. One week National Workshop on, "Digital signal and image processing", organized by ECE Department, Jaypee University of Engineering and Technology, Guna, 5th -10th July, 2010.
44. Three weeks Technical visit in the Department of Telecommunication on Mobile Technologies(GSM & CDMA-WLL), Transmission Equipment(OFC & PCM), Switching Equipments (OCB-283, 5ESS, C-DOT), Computerized Integrated Package DOTSOFT and Broadband technologies and Installation of Multiplay Equipment System, 18th June to 7th July, 2007.
45. One Month training in the Department of Telecommunication on C-DOT, OFC, E10B, ISDN, OCB, Switching, LAN, Internet, Intranet and other advanced communication technologies.

Publication@JUET

[Google Scholar Profile Link](#)

Journals

[1] V.K.Senthil Ragavan, Sara, Thirumalai Selvan, Ravi, ““Optimized Machine Learning Model Discourse Analysis”, Education and Information Technologies, 2024, Springer. ISSN: 1360-2357. DOI: <https://doi.org/10.1007/s10639-024-12515-3>. (SSCI) (Impact Factor: 5.5)

[2] Ishan Shivansh Bangroo, Ravi Kumar “AI Drive: Quantum-Computational DRL Framework for EHV Navigational Efficiency and Security Augmentation”, Optical and Quantum Electronics, Springer, Vol.56, Article 570, 30th January 2024, pp. 1-23. ISSN: 0306-8919. DOI: <https://doi.org/10.1007/s11082-023-06162-0>. (SCI) (Impact Factor: 3)

[3] Ishan Shivansh Bangroo, María Fernanda Del Cid Hernández, Ravi Kumar “Decoding Toxicological Signatures through Quantum Computational Paradigm”, Optical and Quantum Electronics, Springer, Vol.56, Article 545, 30th January 2024, pp.1-32. ISSN: 0306-8919. DOI: <https://doi.org/10.1007/s11082-023-06079-8>. (SCI) (Impact Factor:3)

[4] Ansar Isak Sheikh, M. Sadish Sendil, P. Sridhar, M.I. Thariq Hussan, Shafiqul Abidin, Ravi Kumar, Reyazur Rashid Irshad, Elangovan Muniyandy, Solleti Phani Kumar, “Revolutionizing collaborative Auditing: A Dynamic Blockchain-Based Cloud Storage Framework for Data Updates and Assurance”, Journal of Intelligent & Fuzzy Systems, IOS Press, 18th January 2024, pp. 6553-6564. DOI: <https://doi.org/10.3233/JIFS-237474>. (SCIE) (Impact Factor: 2)

[5] Ravi Kumar, “Quantum-Enhanced OFDM Signal Processing: Advancing 5G Mobile Network and IoT Communication for Healthcare Application”, Optical and Quantum Electronics, Springer, Vol. 56, No. 308, 2024, 29th December 2023, pp.1-18. DOI: <https://doi.org/10.1007/s11082-023-05969-1>. ISSN: 0306-8919. (SCI indexed) (Impact Factor: 3)

[6] Ravi Kumar, Rajesh Gupta, N. Suganya Baby, Kumar Ratnesh, Anupriya Jain, Seema Sharma, “An Empirical Analysis of Machine Learning and Strategic Management of Economic and Financial Security and its Impact on Business Enterprises”, BioGecko - A Journal for New Zealand Herpetology, Vol.12, Issue.1 (Special Issue on Multidisciplinary Research-2023) 30th October 2023, pp.127-137. DOI:<https://biogecko.co.nz/.2023.v12.si01.pp127-137>, ISSN: 2230-5807. (WoS)

[7] Min Qin, Ravi Kumar, Mohammad Shabaz, Sanjay Agal, Pavitar Parkash Singh and Anooja Ammini, “Broadcast speech recognition and control system based on Internet of Things sensors for smart cities” Journal of Intelligent Systems, vol. 32, no. 1, 28th October 2023, pp. 1-12. 20230067. <https://doi.org/10.1515/jisys-2023-0067>. ISSN: 2191-026X. (WoS and SCOPUS Indexed)

[8] S. Rama Krishna, Ravi Kumar, J. Dafni Rose, Vinod Patidar, Anita Soni, Dhaval Mehta, Amol Ranadive, “Artificial Intelligence and Big data Analytics based optimization of crop yields in Sustainable Agriculture” Carpathian Journal of Food Science and Technology, Special issue, 25th October, 2023, pp.1-15 DOI: <https://doi.org/10.34302/SI/238>. ISSN: 2066-6845. (SCOPUS Indexed)

[9] Ravi Kumar, Kiran S. Kakade, M. Priscilla, B.V. Santhosh Krishna, “An effective digital forensic paradigm for cloud computing criminal investigation”, International Journal of Electronic Security and Digital Forensics, Vol. 15, No. 6, October 2023. pp.655-664. DOI: <https://doi.org/10.1504/ijesdf.2023.133966> . ISSN: 1751-9128. (Scopus, WOS-ESCI)

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