

RESUME

Dr. Vikas Baghel

Associate Professor, Department of Electronics & Communication Engineering

SPS Counsellor, IEEE JUIT Student Branch

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1. EXPERIENCE: (10+ years)

- **Jaypee University of Information Technology, Waknaghat**
Department: Electronics and Communication Engineering
Position: Associate Professor
Duration: 1 July 2025 – Till date
- **Jaypee University of Information Technology, Waknaghat**
Department: Electronics and Communication Engineering
Position: Assistant Professor (SG)
Duration: 1 April 2017 – 30 June 2025

2. ACADEMIC QUALIFICATION:

- **Ph.D.:** Electronics and Communication Engineering (Radar Signal Processing)
University: Indian Institute of Technology (IIT) Bhubaneswar, India
Duration: 2009-2014
CGPA: 9.0 (in Course work)
Thesis Title: Development and Performance Evaluation of a Class of Novel Radar Pulse Compression Techniques
Status: Awarded on October 18, 2014
- **M.Tech.:** Electronics and Communication Engineering (Telematics and Signal Processing)
University: National Institute of Technology (NIT) Rourkela, India
Duration: 2007-2009
CGPA: 9.15
Thesis Title: Multiobjective Optimization - New Formulation and Application to Radar Signal Processing

- **B.Tech.:** Electronics and Communication Engineering
University: Dr. K.N.M.I.E.T. Modinagar, Uttar Pradesh Technical University (UPTU) Lucknow, India
Duration: 2003-2007
Percentage: 69.12%

3. FIELDS OF INTEREST:

Radar Signal Processing, Array Signal Processing, Image Processing, Soft Computing

4. RESEARCH GUIDANCE:

Ph.D. Guided (Awarded-01, Submitted-01, Ongoing-03)

1. **Research Scholar:** Diksha Thakur (186004)
Title: Robustness and Performance Enhancement in Smart Antenna Systems through Novel Beamforming Techniques
Guidance: Joint (Dr. Vikas Baghel & Dr. Salman Raju), **Status:** Awarded (27-Aug-2024)
2. **Research Scholar:** Munish Bhardwaj (206008)
Title: Development of Advanced Fuzzy C-Means Clustering Methods for Robust Road Crack Segmentation and Detection
Guidance: Joint (Dr. Vikas Baghel & Dr. Nafis U Khan),
Status: Submitted (June 2025)
3. **Research Scholar:** Alefia Jaret (236554)
Topic: Design, Synthesis, and Biological Evaluation of Anticancer Peptides
Guidance: Joint (Dr. Gopal Singh Bisht & Dr. Vikas Baghel),
Status: Ongoing
4. **Research Scholar:** Manish Kumar (236602)
Topic: Strategic Risk Assessment and Mitigation of Landslides and Flashfloods through Data-driven Decision Making and Predictive Modelling
Guidance: Joint (Dr. Tanmay Gupta & Dr. Vikas Baghel),
Status: Ongoing
5. **Research Scholar:** Bhavna Mahant (246852)
Topic: Multi-Criteria Decision Making Based on Neutrosophic and Fuzzy Information Measures.
Guidance: Joint (Prof. Rakesh K Bajaj & Dr. Vikas Baghel),
Status: Ongoing

M.Tech. Project Guided (02)

1. Anomaly detection in surveillance, **Amit Roy** (225042002), 2023, (**Jointly Guided**), Dr. Nishant Jain & Dr. Vikas Baghel.
2. Analysis and Design of Microstrip Patch Antenna at 60 Hz for Automotive Radar, **Nikita Sharma** (162007), 2018, (**Jointly Guided**), Dr. Vikas Baghel & Dr. Ashwani Sharma.

5. FUNDED RESEARCH PROJECTS: (01 Ongoing)

1. **Intelligent Farming-Autonomous Navigation Sensor Management System**

Funding Agency: Kanpur Fertilizers & Chemicals Limited (KFCL) (In-house)

Reference No.: GL code 97055

PI: Dr. Vikas Baghel, **CO-PI:** Dr. Aman Sharma, Dr Pardeep Garg, Dr. Shruti Jain

Duration: 24 Months

Total Budget: 6,00,000 INR

Sanction Date: November 20, 2025

Status: Ongoing

2. **Enhancing fuel cell efficiency by adopting innovative catalyst materials along with developing AI-driven health estimation module for vehicle engine using hydrogen fuel**

Funding Agency: Anusandhan National Research Foundation (ANRF)

PI: Dr. Surajit Kumar Hazra, **CO-PI:** Dr. Vikas Baghel, Prof. Partha Barman

Duration: 36

Total Budget: 44,58,944 INR

Status: Under Review

6. PUBLICATIONS:

• Journals (17) (SCI/SCIE - 08 , Web of Science/Scopus - 09)

1. Alefia Jaret, **Vikas Baghel**, Gopal Singh Bisht, “Anticancer Peptides: Unveiling the Next Frontier in Cancer Treatment”, International Journal of Peptide Research and Therapeutics, 31 (64), 1-20, April 2025. <https://doi.org/10.1007/s10989-025-10724-z> (SCIE, Scopus, ISSN: 1573-3904, IF: 2.0, CiteScore: 5.5)
2. Manish Kumar, Tanmay Gupta, **Vikas Baghel**, “Multi-sectoral impacts of the 2023 disasters in Himachal Pradesh and mitigation plans”, Infrastructure Asset Management, 0 (0), 1-21, April, 2025. <https://doi.org/10.1680/jinam.24.00025> (ESCI, Web of Science, Scopus, ISSN: 2053-0242, CiteScore: 2.7)
3. Munish Bhardwaj, Nafis uddin Khan and **Vikas Baghel**, “A Novel Fuzzy C-Means Clustering Framework for Accurate Road Crack Detection: Incorporating Pixel Augmentation and Intensity

- Difference Features”, Informatica, 49(15), 27-40, March 2025. <https://doi.org/10.31449/inf.v49i15.7082> (Scopus, ISSN: 0350-5596, CiteScore: 2.2)
4. D. Thakur, **V. Baghel**, S.R. Talluri, “Analysis of SCB-DB algorithm for various characteristic parameters”, Recent Patents on Engineering, Bentham Science Publishers, February, 2025. (Scopus, ISSN: 1872-2121, CiteScore: 1.4) <http://dx.doi.org/10.2174/0118722121338202250109111357>
 5. Manish Kumar, Tanmay Gupta, **Vikas Baghel**, “A Comprehensive Analysis of the 2023 Himalayan Disasters in Himachal Pradesh: Multi-Sectoral Impacts and Strategic Mitigation Approaches”, E3S Web Conf., 596 (01009), 1-5, November 2024. <https://doi.org/10.1051/e3sconf/202459601009> (Scopus, ISSN: 2267-1242, CiteScore: 0.9)
 6. Deepak Sharma, Rishi Mahajan, **Vikas Baghel**, Saurabh Bansal, Vishal Ahuja and Gunjan Goel, “Simultaneous Production of Biogas and Electricity from Anaerobic Digestion of Pine Needles: Sustainable Energy and Waste Management”, BioTech, 13(3), 35, September 2024. <https://doi.org/10.3390/biotech13030035> (ESCI, Web of Science, Scopus, ISSN: 2673-6284, IF: 2.7, CiteScore: 3.7)
 7. D. Munish Bhardwaj, Nafis Uddin Khan, **Vikas Baghel**, “Fuzzy C-Means Clustering based Selective Edge Enhancement Scheme for Improved Road Crack Detection”, Engineering Applications of Artificial Intelligence, Volume 136(Part A), 108955, July 2024. <https://doi.org/10.1016/j.engappai.2024.108955> (SCIE, Scopus, ISSN: 1873-6769, IF: 7.5, CiteScore: 9.6)
 8. D. Munish Bhardwaj, Nafis Uddin Khan, **Vikas Baghel**, “Road Crack Detection using Pixel Classification and Intensity based Distinctive Fuzzy-C Means Clustering”, The Visual Computer, 41, 1689-1704, June 2024. <https://doi.org/10.1007/s00371-024-03470-8> (SCIE, Scopus, ISSN: 1432-2315, IF: 3.0, CiteScore: 5.8)
 9. D. Thakur, **V. Baghel**, S. R. Talluri, “Improvements in sparse array based beamformer via additional constraints”, International Journal of Computing and Digital Systems, 14 (1), 719-727, 01 September 2023. <http://dx.doi.org/10.12785/ijcds/140155> (Scopus, ISSN: 2210-142X, CiteScore: 1.7)
 10. D. Thakur, **V. Baghel**, S. R. Talluri, “A dual beam adaptive beamforming algorithm with sidelobe suppression”, Measurement: Sensors, 24 (100514), 1-8, December 2022. <https://doi.org/10.1016/j.measen.2022.100514> (Scopus, ISSN: 2665-9174, CiteScore: 3.1)
 11. D. Thakur, **V. Baghel**, S.R. Talluri, “Proximal gradient method based robust Capon beamforming against large DOA mismatch”, Frequenz, 75(7-8), 259-266, April 23, 2021. <https://doi.org/10.1515/freq-2020-0133> (SCIE, Scopus, ISSN: 2191-6349, IF: 0.8, CiteScore: 2.4)
 12. D. Thakur, **V. Baghel**, S.R. Talluri, “Design of an Efficient Wideband Beamformer using OPSO”, International Journal of Innovative Technology and Exploring Engineering (IJITEE), 8(11), 2144-2152, September 2019. <http://doi.org/10.35940/ijitee.K2020.0981119> (Scopus, ISSN: 2278-3075, CiteScore: 0.6)

13. **V. Baghel**, “Adaptive Mismatched Filter Design for Radar Pulse Compression”, Journal of Engineering Science & Technology, 14(3), 1361–1373, June 2019. <https://jestec.taylors.edu.my/V14Issue3.htm> (ESCI, Web of Science, Scopus, ISSN: 1823-4690, CiteScore: 1.7)
14. B. Majhi, M. Rout, **V. Baghel**, “On the Development and Performance Evaluation of a Multiobjective GA-based RBF Adaptive Model for the Prediction of Stock Indices”, Elsevier Journal of King Saud University - Computer and Information Sciences, 26(3), 319–331, September 2014. <https://doi.org/10.1016/j.jksuci.2013.12.005> (SCI, ISSN: 1319-1578, IF: 6.9, CiteScore: 10.5)
15. **V. Baghel**, G. Panda, “Development and Performance Evaluation of Generalised Doppler Compensated Adaptive Pulse Compression Algorithm”, IET Radar, Sonar & Navigation, 8(4), 297 – 306, April 2014. <https://doi.org/10.1049/iet-rsn.2013.0076> (SCI, ISSN: 1751-8784, IF: 1.4, CiteScore: 4.1)
16. **V. Baghel**, G. Panda, “Development and Performance Evaluation of an Improved Complex Valued Radar Pulse Compressor”, Elsevier Engineering Applications of Artificial Intelligence, 26(10), 2653–2660, November 2013. <https://doi.org/10.1016/j.engappai.2013.07.020> (SCI, ISSN: 0952-1976, IF: 7.5, CiteScore: 9.6)
17. **V. Baghel**, G. Panda, “Development of an Efficient Hybrid Model for Range Sidelobe Suppression in Pulse Compression Radar”, Elsevier Aerospace Science and Technology, 27(1), 156–162, June 2013. <https://doi.org/10.1016/j.ast.2012.08.002> (SCI, ISSN: 1270-9638, IF: 5.0, CiteScore: 10.3)

- **Book Chapters (01)**

1. D. Munish Bhardwaj, Nafis Uddin Khan, **Vikas Baghel**, Santosh Kumar Vishwakarma, Abul Bashar, “Brain Tumor Image Segmentation using K-Means and Fuzzy C-Means Clustering”, In Digital Image Enhancement and Reconstruction 1st, pp. 293-316 India: Elsevier Science. [ISBN: 978-0-323-98370-9], 2023. <https://doi.org/10.1016/B978-0-32-398370-9.00020-2> (Scopus Indexed)

- **Conferences (19)**

1. Amit Roy, Nishant Jain, **Vikas Baghel**, “Estimation of Abnormal Crowd Density Using Transfer Learning Techniques” in the Fifteenth International Conference on Computing, Communication and Networking Technologies (ICCCNT), held at IIT-Mandi, in association with IEEE Electronics Packaging Society, during June 24th - 28th, 2024. [ISBN:979-8-3503-7024-9] <https://doi.org/10.1109/ICCCNT61001.2024.10725714>
2. Munish Bhardwaj, Nafis uddin Khan, **Vikas Baghel**, “Improved Road Crack Detection using Histogram Equalization based Fuzzy-C Means Technique”, in proc. of IEEE Proceedings of 7th International Conference on Parallel, Distributed and Grid Computing (PDGC), 547-551, 25-27 November 2022. [ISBN:978-1-6654-5401-8] <https://doi.org/10.1109/PDGC56933.2022.10053319>
3. D. Thakur, **V. Baghel**, S.R. Talluri, “Robust Beamforming Against DOA Mismatch with Null Widening for Moving Interferences”, In Thampi S.M., Krishnan S., Hegde R.M., Ciuonzo D., Hanne

- T., Kannan R. J., *Advances in Signal Processing and Intelligent Recognition Systems* (pp. 290-301). : Springer, 2021. [ISBN: 978-981-16-0425-6], https://doi.org/10.1007/978-981-16-0425-6_21
4. Diksha Thakur, **V. Baghel**, Salman Raiu Talluri, “Robust Beamforming against Mismatched Signal Steering Vector using Ellipsoidal Constraints”, in proc. of IEEE 2020 Sixth International Conference on Parallel, Distributed and Grid Computing (PDGC), 303-307, 6-8 November 2020. [ISBN:978-1-7281-7132-6], <https://doi.org/10.1109/PDGC50313.2020.9315841>
 5. **V. Baghel**, “A Survey on Maximum Power Point Algorithms for PV System”, in IEEE proc.of International Conference on Electronics, Communication and Aerospace Technology (ICECA), Coimbatore, India, 84-88, 29-31 March 2018. [ISBN:978-1-5386-0965-1], <https://doi.org/10.1109/ICECA.2018.8474644>
 6. **V. Baghel**, “Efficient Pulse Compression using Convolutional Neural Network”, in proc. of International Conference on Advance Studies in Engineering and Sciences (ICASES), Sehore, India, 109-114, 2 December, 2017.
 7. **V. Baghel**, Y. Agrahari and C.K. Maurya, “Design of Pulse Compression Filter using Complex Valued Multilayer Feedforward Neural Network”, in proc. of International Conference on Emerging Technologies in Science, Engineering and Management (ICETSEM-2016), Ghaziabad, India, 1-3, 23-24 April 2016.
 8. **V. Baghel**, G. Panda and S.K. Verma, “Efficient Design of Radar Waveforms using Novel Multiobjective Optimization Technique”, in IEEE proc. of International Conference on Recent Advances in Engineering and Computational Sciences (RAECS), Chandigarh, India, 1-5, 21-22 December 2015. [ISBN:978-1-4673-8253-3], <https://doi.org/10.1109/RAECS.2015.7453330>
 9. K. Samal, **V. Baghel**, S. K. Pani, S. Panda, and A. Panda, “Fault-Tolerant Scheduling of Real-Time Tasks on Multiprocessor based Systems using PSO”, in Proc. of International Conference on Communication and Computer Networks of the Future (COMNET 2014), Computer Society of India, 14-15 March 2014, Coimbatore, India.
 10. A.K. Samal, S. Panda, **V. Baghel**, G.Panda, “ACO and GA based Fault-Tolerant Scheduling of Real-Time Tasks on Multiprocessor Systems – A Comparative Study”, IEEE International Conference on Intelligent Systems and Control (ISCO), 120-126, 10-11 January 2014, Coimbatore, India. [ISBN:978-1-4799-3837-7], <https://doi.org/10.1109/ISCO.2014.7103930>
 11. **V. Baghel**, A. Panda, G. Panda, “An efficient hybrid adaptive pulse compression approach to radar detection”, in IEEE Proc. of International Conference on Signal Processing and Communication (ICSC), 376-380, 12-14 Dec 2013, Noida, India. [ISBN:978-1-4799-1607-8], <https://doi.org/10.1109/ICSCom.2013.6719808>
 12. A.K. Samal, S. Panda, **V. Baghel**, G. Panda, “Fault-Tolerant scheduling of real-time tasks on multiprocessor using ant colony optimization”, in Proc. of International Conference on Computing and Systems (ICCS – 2013), 143-153, 21-22 September 2013, Burdwan, West Bengal, India.

13. **V. Baghel**, G. Panda, L. Mansinha, K.F. Tiampo, S.R. Valluri, “Enhancement of the frequency resolution of the S-transform using the Fourier transform”, in IEEE Proc. of International Conference on Energy, Automation, and Signal (ICEAS), 1-5, 28-30 December 2011, Bhubaneswar, India. [ISBN:978-1-4673-0136-7], <https://doi.org/10.1109/ICEAS.2011.6147193>
14. **V. Baghel**, S. J. Nanda, G. Panda, “New GOPSO and its application to robust identification”, in IEEE Proc. of International Conference on Energy, Automation, and Signal (ICEAS), 1-6, 28-30 December 2011, Bhubaneswar, India. [ISBN:978-1-4673-0136-7], <https://doi.org/10.1109/ICEAS.2011.6147191>
15. D. Ranganadham, **V. Baghel**, D.R. Poddar, R.K. Mishra, “Development and Performance Evaluation of an Efficient Multimedia Communication Scheme Using DWT and Adaptive Channel Equalization”, in IEEE Proc. of International Conference on Advances in Computer Engineering (ACE), 64-68, 21-22 June 2010, Bangalore, India. [ISBN:978-0-7695-4058-0], <https://doi.org/10.1109/ACE.2010.52>
16. Sailaja, A.K. Sahoo, G. Panda, **V. Baghel**, “A Recurrent Neural Network Approach to Pulse Radar Detection”, in IEEE Proc. of India Conference (INDICON), 1-4, 18-20 December 2009, Ahmedabad, India. [ISBN:978-1-4244-4859-3], <https://doi.org/10.1109/INDCON.2009.5409446>
17. **V. Baghel**, G. Panda, P. Srihari, K. Rajarajeswari, B. Majhi, “An efficient multi-objective pulse radar compression technique using RBF and NSGA-II”, in IEEE Proc. of World Congress Nature & Biologically Inspired Computing (NaBIC), 1291-1296, 9-11 December 2009, Coimbatore, India. [ISBN:978-1-4244-5612-3], <https://doi.org/10.1109/NABIC.2009.5393761>
18. **V. Baghel**, G. Panda, P. Srihari, K. Rajarajeswari, “Performance Evaluation of Phase Coded Radar Signals using Functional Link Artificial Neural Network”, in Proc. of International Radar Symposium India (IRSI-2009), 8-11 December 2009, Bangalore, India.
19. P.M. Pradhan, **V. Baghel**, G. Panda, M. Bernard, “Energy efficient layout for a wireless sensor network using multi-objective particle swarm optimization”, in IEEE Proc. of International Advance Computing Conference (IACC), 65-70, 6-7 March 2009, Patiala, India. [ISBN:978-1-4244-2928-8], <https://doi.org/10.1109/IADCC.2009.4808982>

7. PATENT (2 Published, 1 Granted):

1. **Published** (Publication No. : 14/2025, Application No.: 202511025087): Devank Kansal, Saksham Mittal, **Vikas Baghel**, and Shruti Jain, “A System and a method to display and navigate images using Voice Commands”, April 04, 2025.
2. **Published** (Publication No.: 26/2024, Application no.: 202411045083): Abhishek Kumar, Utkarsh Sharma, Deepanshu, Sanat Jain, **Vikas Baghel**, Nishant Jain, “Autonomous Firefighting Robot System with Dynamic Sensor Fusion and AI-Enhanced Navigation”, June 28, 2024.
3. **Granted** (Design No.: 417763-001): **Vikas Baghel**, Nishant Jain, Prof. Shruti Jain, “Solar-Powered Go Cart”, May 23, 2024.

8. FDP'S OF AT LEAST ONE WEEK DURATION:

Organized: (03)

1. Organizer of One week FDP on “**VLSI Design: Bridging Theory and Practice**” supported by MeitY, Govt of India, conducted by Electronics & ICT Academy, C-DAC Mohali from 9th June to 13th June 2025.
<https://www.juit.ac.in/departement/Electronics/FacultyDevelopmentProgramReportvlsi.pdf>
2. Organizer of One week FDP on “**MATLAB for Image Analysis and Pattern Recognition**” supported by MeitY, Govt of India, conducted by Electronics & ICT Academy, C-DAC Mohali from 2nd September to 6th September 2024. https://www.juit.ac.in/departement/Electronics/Final_ReportMATLAB.pdf
3. Organizer of One week Online Short Term Course on “**Recent Advances in Computational Intelligence for Signal Processing (RACISP-2020)**”, Jaypee University of Information Technology, Wanknaghat, August 10-15, 2020.
<https://www.juit.ac.in/departement/Electronics/REPORT-RACISP-2020.pdf>

9. CONFERENCES/ WORKSHOPS/ SEMINARS:

Conferences Organized (02):

1. Organized (Conference Chair) of “**3rd Emergent Converging Technologies and Biomedical Systems (ETBS 2023)**”, Jaypee University of Information Technology, Wanknaghat, May 15-17, 2023.
<https://www.juit.ac.in/etbs2023/>
2. Organized (Conference Chair) of “**2nd Emergent Converging Technologies and Biomedical Systems (ETBS 2022)**”, Jaypee University of Information Technology, Wanknaghat, September 23-24, 2022.
<https://www.juit.ac.in/etbs2022/index.php>

Workshops / Seminars Organized (08):

1. CONVENER in Five Day Bootcamp on Drone Technology and Its Applications under the "**Capacity Building for Human Resource Development in Drone and related Technology**" project organized by the NIT, Kurukshetra at Jaypee University of Information Technology (JUIT), Wanknaghat Solan, Himachal Pradesh held from 14 April to 18 April 2025.
<https://www.juit.ac.in/departement/CSE&IT/MediaReportforDroneBootCamp.pdf>
2. Organizer of “**Innovate to Heal: Preventive and Curative Healthcare for Future**” organized by the Institution's Innovation Council in collaboration with IEEE JUIT SPS Chapter, Department of Humanities and Social Sciences, Department of Civil Engineering, TIED Cell and NSS, JUIT from February 25-28, 2025. <https://www.juit.ac.in/TIEDC/InnovatetoHeal25-28Feb2025.pdf>
3. Organizer of “**EcoInnovate: Sustainable Innovation for a Cleaner Planet**” under Institution's Innovation Council in collaboration with IEEE JUIT SPS Chapter, Department of Humanities and Social Sciences, Department of Civil Engineering, and National Service Scheme, JUIT from November 20-22, 2024. <https://www.juit.ac.in/public/TIEDC/Ecoinnovate%2020-22%20Nov%202024.pdf>

4. Organizer of “**VICHARANA 3.0: Sustainable Development**”, October, 9, 2021, Jaypee University of Information Technology, Himachal Pradesh, India. <https://www.juit.ac.in/TIEDC/FlyerVS3.jpg>
5. Organizer of “**VICHARANA 2.0: Toy Innovation Challenge**”, January 16, 2021, Jaypee University of Information Technology, Himachal Pradesh, India. <https://www.juit.ac.in/TIEDC/ReportofVICHARANA2.pdf>
6. Organizer of “**VICHARANA 2020**”, October, 17, 2020, Jaypee University of Information Technology, Himachal Pradesh, India. <https://www.juit.ac.in/TIEDC/ReportofVICHARANA2020.pdf>
7. Organizer of 10 days “**Online Workshop on Industrial Revolution 4.0**”, Jaypee University of Information Technology, Waknaghat, July 3 – Sept. 4, (every Saturday) 2021. <https://www.juit.ac.in/departement/Electronics/workshopExit%20Report3july2021.pdf>
8. Organizer of Guest Lecturer on “**Compressed Sensing: Beating the Nyquist Sampling**” by Prof. (Dr.) Debashis Ghosh, HoD ECE, IIT Roorkee, March 23, 2019, Jaypee University of Information Technology, Himachal Pradesh, India. <https://www.juit.ac.in/departement/Electronics/ExpertlectureMarch232019.pdf>

10. MEMBERSHIP OF PROFESSIONAL BODIES: (03)

- Senior Member, IEEE (Membership No.: 90791495)
- Member, IET (Membership No.: M-1782457)
- Life Time Member, IAENG (Membership No.: 171615)

11. NO. OF INVITED TALKS/LECTURES DELIVERED OUTSIDE: (02)

1. Expert lecture in 5 Days FDP on “MATLAB for Image Analysis and Pattern Recognition” supported by MeitY, Govt of India, conducted by Electronics & ICT Academy, C-DAC Mohali on 5th September 2024.
2. Invited Talk in Workshop on “Drones & IoT Technologies” at Cambridge International School, Palampur 30th January 2025. <https://www.juit.ac.in/departement/Electronics/Report-WorkshoponDrones&IoTTechnologies.pdf>

12. LABORATORIES DEVELOPED: (01)

Drobotics Lab: This lab stands as a testament to innovation, bridging academia with practical applications, and nurturing the next generation of drone and robotics enthusiasts and trailblazing researchers.

13. INTERACTION WITH OUTSIDE WORLD:

Conference Session Chair

1. Member of Technical Program Committee and Reviewer of research papers submitted to the IEEE TENSYP Conference 2024 organized by IEEE R10 in association with Delhi Section on September 27-29, 2024.

2. Session Chair, session titled TS 36: Data Science and Applications in the “5th International Conference on Data Science and Applications (ICDSA 2024)” held during 17th to 19th July, 2024 at Malaviya National Institute of Technology Jaipur, India.
3. Session Chair, “2nd International Conference on Advances in Data-driven Computing and Intelligent Systems (ADCIS 2023)”, BITS Pilani, K K Birla, Goa Campus, India on September 21-23, 2023.
4. Technical Program Committee Member and Session Chair, 4th International Conference on “Data Science and Applications (ICDSA 2023)”, Malaviya National Institute of Technology Jaipur, India on July 14-15, 2023.
5. Session Chair, International Conference on “Paradigms of Communication, Computing and Data Sciences (PCCDS 2022)”, organized by Malaviya National Institute of Technology Jaipur, India, July 5 – 7, 2022.
6. Session Chair, “IEEE Delhi Section International Conference on Electrical, Electronics and Computer Engineering (DELCON-2022)” organized by Netaji Subhas University of Technology, Dwarka, New Delhi, India on February 11- 13, 2022.

Reviewers for Journals/Conferences

1. Reviewer of Journals
 - Journal of King Saud University - Computer and Information Sciences.
 - Applied Soft Computing
 - Journal of Computing and Digital Systems
2. Reviewer of Conferences
 - 7th International Conference on Signal Processing, Computing and Control (ISPCC 2k25) organised by the Department of Electronics and Communication Engineering, JUIT, Wagnaghat, Solan (HP) from March 06 - 08, 2025.
 - 4th International Conference on “Data Science and Applications (ICDSA 2023)”, Malaviya National Institute of Technology Jaipur, India, July 14-15, 2023.
 - International Conference on “Paradigms of Communication, Computing and Data Sciences (PCCDS 2022)”, Malaviya National Institute of Technology Jaipur, India, 5th-7th July, 2022.
 - IEEE Delhi Section International Conference on “Electrical, Electronics and Computer Engineering (DELCON-2022)”, India 11 -13 Feb, 2022.
 - 5th National Conference on “Recent Trends in Electronics and Electrical Engineering (NCRTEEE-2021)”, Noida, India 29th-30th OCT, 2021.
 - International Conference on “Signal Processing and Communication (ICSC-2020)”, Jaypee Institute of Information Technology, Noida, India, March 5th-7th, 2020.
 - 18th IEEE International Conference on “Information Technology (ICIT2019)”, College of Engineering and Technology, Odisha, India, 19th - 21st Dec, 2019.

- 3rd International Conference on “Innovative Applications of Computational Intelligence on Power, Energy and Controls with their impact on Humanity (CIPECH-18)”, 01-02 Nov 2018, Ghaziabad, India.

14. ACHIEVEMENTS:

1. Received Workshop Funding of **USD 500** from **IEEE Region 10EA Project Development Grant**.
2. Received Conference Funding of **Rs. 1,80,000** from **DST iHub-AWaDH and Indian Institute of Technology Ropar** for organizing International Conference on “3rd Emergent Converging Technologies and Biomedical Systems (ETBS 2023)” at Jaypee University of Information Technology, Waknaghat, May 15-17, 2023. <https://www.juit.ac.in/etbs2023/>
3. Received Conference Funding of **Rs. 25,000** from **Council of Scientific & Industrial Research (CSIR)** for organizing International Conference on “3rd Emergent Converging Technologies and Biomedical Systems (ETBS 2023)” at Jaypee University of Information Technology, Waknaghat, May 15-17, 2023. <https://www.juit.ac.in/etbs2023/>
4. Received Conference Funding of **Rs. 10,000** from **Biomedical Engineering Society of India** for organizing International Conference on “3rd Emergent Converging Technologies and Biomedical Systems (ETBS 2023)” at Jaypee University of Information Technology, Waknaghat, May 15-17, 2023. <https://www.juit.ac.in/etbs2023/>
5. Received Conference Funding of **Rs. 30,000** from **Council of Scientific & Industrial Research (CSIR)** for organizing International Conference on “2nd Emergent Converging Technologies and Biomedical Systems (ETBS 2022)”, Jaypee University of Information Technology, Waknaghat, September 23-24, 2022. <https://www.juit.ac.in/etbs2022/index.php>
6. **Fellowships**
 - Government of India, **Research Fellowship**, October 2011-September 2013
 - Government of Canada, **DFAIT GSEP Fellowship**, April 2010-September 2010
 - Government of India, **DST Senior Research Fellowship**, October 2009-September 2011
 - Government of India, **GATE Fellowship**, July 2007-May 2009

References

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Declaration

This is to certify that the details furnished above are true to the best of my knowledge and belief.

(Dr. Vikas Baghel)