DR. SHWETA SHARMA
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DOB: 7th August.

Educational Qualifications

Ph.D. in Wireless Sensor Networks
Department of Computer Science and Engineering, Chitkara University, Rajpura, India (2024) PhD Thesis: *A Trust Based Approach for Lifetime Enhancement In WSN*, Ph.D. Supervisor: Dr. Amandeep Kaur.

MTech. (Information Technology) - Karnataka State Open University, Mysore, India (2010-2012)

M.Sc. (Computer Science) – B.U.C College, Batala, Punjab, India (2006-2008)

Bachelor of Arts (with Computer Science) - R.R. Bawa D.A.V. College for Girls, Batala, Punjab, India (2003-2006)

Teaching/Research Experience

- 2011- till date
  Assistant Professor in PG Department of Information Technology, GGDSD College,Chandigarh
  Teaching at Graduate and Post-graduate level
- 2010-2011
  Assistant Professor in Department of Computer Science, MCM DAV College for Women,Chandigarh
- 2008-2009
  Lecturer in Computer Science, R.R. Bawa D.A.V. College for Girls, Batala, Punjab.

Areas of Interest

- Wireless Sensor Networks

Publications (Journal/Book Chapters)

Journal Publications:

• Sharma, S. and Kaur, A., 2020. Simulation of Cloud Platform Supporting Wireless Sensor Network. Journal of Computational and Theoretical Nanoscience, 17(6), pp.2613-2620.

• Kaur, A. and Sharma, S., 2021, December. Comparative Analysis of Nodes Transmission Power in Wireless Sensor Network. In Proceedings of the International Conference on Innovative Computing & Communication (ICICC), pp.1-10.

• Sharma, S. and Kaur, A., 2021, July. Survey on wireless sensor network, Its Applications and Issues. In Journal of Physics: Conference Series (Vol. 1969, No. 1, p. 012042). IOP Publishing.

• Kaur A, Singh V, Sharma S., 2023, A comprehensive study of trust management system in wireless sensor networks. In AIP Conference Proceedings 2023 Jul 24 (Vol. 2788, No. 1). AIP Publishing.

• Sharma, S. and Kaur, A., 2023, Lifetime Enhancement of Efficient Energy for Reliable Wireless Sensor Network Using Swarm Intelligence Optimization in Journal of Data Acquisition and Processing, 38 (4), pp. 14-33.

• Sharma, S., Kaur, A., Gupta, D., Juneja, S. and Kumar, M., 2023. Dragon fly algorithm-based approach for escalating the security among the nodes in wireless sensor network-based system. SN Applied Sciences, 5(12), pp.1-20.

Books:

Trends in Deep Learning: Unveiling the future of AI, Year 2023, Pages 142 pages, Mittal Publications.

Seminars/ Conferences/Symposiums (Paper Presented)

- Presented a paper on wireless sensor networks in ICSSR Sponsored National Seminar on Recent Trends in Information Technology organized by PG Department of Information Technology held on 25th March, 2022.
- Presented a paper titled "An Overview on Sensor Networks" in Symposium on Recent Trends in Information Technology and Technical Innovation organized by Department of Computer Applications, Chitkara University, Punjab on May 11, 2022

Reviewer

- Reviewed research papers submitted to the 1st International Conference on Smart Computing and Communication for Sustainable Convergence, 2024 organized by CRIO, Chitkara University, Punjab, India on 18th October, 2024.

Patents

- Innovative Approach for organizing Management Development Programs (MDP) in cost effective manner in an organization., Gargi Chaudhary, Neha Yajurvedi, Desh Deepak Agarwal, Abhishek kumar, Shweta Sharma, Shikha Choudhary, Ratika Chawla, Sweta Gaur, Rohit kumar, Ashok kumar Sahai, Anuj Goel, Mohit Gupta, Patent No. 202311082985 Engineering and Technology, Filed 2023-12-06 Published 2024-01-12
- Holistic Student Support System: A Comprehensive Approach to Student Success Management in Higher Education Institutions, Shweta Sharma, Neha Yajurvedi, Patent No. 202411032746 Engineering and Technology, Filed 2024-04-25 Published 2024-05-17

Refresher Courses/Workshops/ Training Programmes

- Completed the Online - NEP2020 Orientation & Sensitization Programme from 16.01.2024 to 26.01.2024 under Malaviya Mission Teacher Training Programme (MM-TTP) of university Grants Commission (UGC) Organized by UGC-Malaviya Mission Teacher Training Centre (MMTTC), Panjab University, Chandigarh.
- Completed One day National Workshop on "Natural Language Processing" conducted on 27th March, 2024 organized by Department of Computer Science and Applications (DCSA) Panjab University, Chandigarh, India
- Attended the workshop on Professional Visualization of Flowcharts using MS Visio held on July 23-24, 2024 organized by the Office of PhD Programs, CURIN, Chitkara University, Punjab, India
- Attended the two days' workshop on Unlock the power of MATLAB: A hands-on introduction to scientific computing held at Chitkara University on August 23-24, 2024.
- Attended an online workshop on "Introduction to Power BI" organized by Readers Club, GGDSD College in August 2024.
- Attended workshop on "Navigating a Career in Computer Graphics and Vision: Skills, Innovative Techniques and Role of AI organized by Chitkara University, Punjab on 13th November, 2024.
- Completed Online one week Faculty Development Programme on "Psychological Skills for Teaching and Learning" from 15 - 21 July, 2023.
- Completed the two days symposium on "Design of Thesis/Research report in MS word held on February 6-7, 2023 at Chitkara University, Punjab.
- Completed an IBM advanced course on Predictive Analytics

using IBM SPSS Modeler on December 30, 2022.

- Completed online one week Faculty Development Programme on “How to create your own MOOCS” from 21 – 27 November, 2022.
- Completed the two days’ workshop on Reference Management using Mendeley Software organized by Office of PhD Program, CURIN, Chitkara University, Punjab held on September 23-24,2022.
- Participated in IP Awareness/Training program under National Intellectual Property Awareness Mission on August 10,2022 organized by Intellectual Property Office, India.
- Participated in the five-day National Research Methodology Workshop organized by the Chitrakoot School of Liberal Arts, Faculty of Liberal Arts and Ancient Indian Wisdom at Shoolini University from 7th Feb 2022 to 11th Feb 2022.
- Participated in One day international Workshop on "Understanding a Research Project" jointly organised by the Internal Quality Assurance Cell (IQAC), North Eastern Hill University (NEHU), Shillong, Meghalaya, India and the Indian Society for Training and Development (ISTD) , Shillong Chapter, Meghalaya, India in collaboration with the department of philosophy and IQAC , Moran College, Moranhat, Charaideo Dist. Assam, India and the department of philosophy, Sri Venkateshwar University (SVU), Tirupati, Andhra Pradesh , India on 2nd March ,2022.
- Participated in One day international Workshop on "Research log and Research Proposal " jointly organised by the Internal Quality Assurance Cell (IQAC), North Eastern Hill University (NEHU), Shillong, Meghalaya, India and the Indian Society for Training and Development (ISTD) , Shillong Chapter, Meghalaya, India in collaboration with the department of philosophy and IQAC , Moran College, Moranhat, Charaideo Dist. Assam, India and the department of philosophy, Sri Venkateshwar University (SVU), Tirupati, Andhra Pradesh , India on 3rd March ,2022.
- Attended 4-week Executive Development Programme on "Data Analysis and Research (Sharpening the Skills through MS-Excel and R Software) from 14th feb to 11th march 2022.
- One week FDP on" Digital Security and Safety for Academicians" from 27th sept 2021 to 3rd Oct 2021 from Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of MINISTRY OF EDUCATION PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING.
- One week FDP on" Teaching -Learning Methods: From Micro teaching to Peer Learning" from 5th Oct 2021 to 11th Oct 2021 from Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of MINISTRY OF EDUCATION PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING.

Administrative Experience

- Member, Readers Club, GGDSD College, Chandigarh
- Worked in NAAC Criteria 4 Report Writing and Compilation Committee
- Member, News Clippings Editorial Board,2020-21, 2021-22,2022-23, 2023-24.
- Member, Group General Dance team, Youth Festival.

- As a moderator in Quillbot Event organized by Readers Club.
- Chief Procter (Disciplinary Coordinator) of R R BAWA DAV College for Girls, Batala, Punjab in 2005-2006.

Membership of Associations

- Life Membership of Computer Society of India.

DR. SHWETA SHARMA