

## FACULTY PROFILE



**Name:** Dr. Ruby Singh

**Designation:** Assistant Professor

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### **Professional Qualification:**

- Ph.D in Computer Science and Engineering from Shobhit University, Meerut, 2020
- M.Tech in Computer Science and Engineering from SRM University, Chennai, 2011
- B.Tech in Information Technology from Uttar Pradesh Technical University, Lucknow, 2009

### **International Journal Publications:**

- DLMNN Based Heart Disease Prediction with PD-SS Optimization Algorithm, Intelligent Automation & Soft Computing, ISSN: 1079-8587, vol. 35, issue 2, pp. 1353-1368, July, 2022.
- A Novel Convolutional Neural Network with Gated Recurrent Unit for Automated Speech Emotion Recognition and Classification, Journal of Control and Decision, ISSN: 2330-7714, vol. 10, issue 1, pp. 54-63, June, 2022.
- Diagnosing Alzheimer's Disease using Convolution Neural Networks, Journal of Computer Science, ISSN: 1549-3636, vol. 18, issue 2, pp. 67-77, February 2022.
- Minimizing Parking Space Search Time using Artificial Intelligence, Journal of Analysis and Computation (JAC), ISSN: 0973-2861, vol. 13, issue 2, pp. 56-63, February 2019.
- An Optimized Vehicle Parking Mechanism using Artificial Neural Network, International Journal of Computer Engineering & Technology (IJCET), ISSN: 0976-6375, vol. 10, issue 1, pp. 102-109, January 2019.

- An Approach for Image Encryption using Modified CAST-128 based Algorithm, International Journal of Engineering & Science Research (IJESR), ISSN: 2277-2685, vol. 7, issue 12, pp. 205-213, December 2017.
- Survey of Software Testing Techniques, International Journal of Engineering Research & Management Technology (IJERMT), ISSN: 2348-4039, vol. 3, issue 6, pp. 86-103, November 2016.
- Secured Video Compression Techniques, International Journal of Education & Science Research Review (IJESRR), ISSN: 2348-6457, vol. 3, issue 4, pp. 33-44, August 2016.
- Increasing Efficiency & Detailing in Analysis of Marketing Trends using SAS, International Journal of Soft Computing and Engineering (IJSCE), ISSN: 2231-2307, vol. 5, issue 4, pp. 40-45, September 2015.
- Encryption Quality and Security Evaluation on Photon invalidate using Quantum Cryptography, International Journal of Advanced Research in Engineering Technology and Sciences (IJARETS), ISSN: 2394-2819, vol. 2, issue 5, pp. 104-109, May 2015.
- Secure Transmission of Information Using Key Management by Elliptic Curve Cryptography, International Journal of Innovative Research in Engineering & Management (IJIREM), ISSN: 2350-0557, vol. 2, issue 3, pp. 60-62, May 2015.
- Jitter Analysis for Moving Vehicle in IEEE 802.11 Ad Hoc Scenario, International Journal of Innovative Research in Engineering & Management (IJIREM), ISSN: 2350-0557, vol. 2, issue 3, pp. 53-55, May 2015.
- Role of Cloud Computing in Cost Minimization: A Review, International Journal of Innovative Research in Engineering & Management (IJIREM), ISSN: 2350-0557, vol. 2, issue 3, pp. 56-59, May 2015.
- SMS Based Remote Voting System using Cell Phone, International Journal of Advanced Research in Engineering Technology & Sciences (IJARETS), ISSN: 2394-2819, vol. 2, issue 3, pp. 90-94, March 2015.
- Authentication Protocol based Public Key Cryptography using Kerberos, International Journal of Engineering & Science Research (IJESR), ISSN: 2277-2685, vol. 3, issue 4, pp. 2904-2911, April 2013.
- Applying Security in Organization using Activity and Identity Management of Employee, International Journal of Engineering & Science Research (IJESR), ISSN: 2277-2685, vol. 3, issue 4, pp. 2918-2924, April 2013.
- Voice over Internet Protocol, International Journal of Engineering & Management Technology (IJEMT), ISSN: 2320-7043, vol. 1, issue 1, pp. 143-148, March 2013.
- Enhancement of DNA Memory Technology using Compression Algorithm, International Journal of Department of Research & Publication, SRM University, NCR Campus (IJDRP), ISSN: 2322-0236, vol. 1, issue 1, pp. 7-11, March 2013.
- Securing WMN using Hybrid Honey Pot System, International Journal of Distributed & Parallel Systems, (IJDPS), ISSN: 0976-9757, vol. 3, issue 3, pp. 29-34, May 2012.

### **International/National Conferences:**

- Intelligent Parking using Wireless Sensor Networks: A Review, International Conference on Recent Developments in Science, Engineering and Technology (REDSET), **Springer (Indexed in Scopus)** held at GD Goenka University, Gurgaon, India, 15<sup>th</sup>-16<sup>th</sup> November 2019.
- A Review on Enhancement of Road Safety in Vehicular Ad-Hoc Networks, International Conference on Recent Developments in Science, Engineering and Technology (REDSET), **Springer (Indexed in Scopus)** held at GD Goenka University, Gurgaon, India, 15<sup>th</sup>-16<sup>th</sup> November 2019.
- A Review of Challenges & Issues in Adopting Big Data Technology for Enterprises, International Conference on Advancement in Engineering Sciences (AES) held at Shri Mata Vaishno Devi University, Katra (J&K), India, 28<sup>th</sup>-29<sup>th</sup> September 2019.
- An Improved Vehicle Parking Mechanism to reduce Parking Space Searching Time using Firefly Algorithm and Feed Forward Back Propagation Method, International Conference on Computational Intelligence and Data Science (ICCIDS), **Elsevier (Indexed in Scopus)** held at Northcap University, Gurgaon, India, 6<sup>th</sup>-7<sup>th</sup> September 2019.
- Analyzing Major Issues and Challenges in Adoption of Internet of Things, International Conference on Future Communication & Computing Technology (ICFCCT) held at Meerut Institute of Engineering & Technology, Meerut, India, 17<sup>th</sup>-18<sup>th</sup> July 2019.
- An Efficient Parking Guidance and Management in Wireless Sensor Networks, Annual Conference of Vijnana Parishad of India on Modeling, Optimization and Computing for Technological and Sustainable Development (MOCTSD) held at SRM Institute of Science & Technology, Ghaziabad, India, 26<sup>th</sup> -28<sup>th</sup> April 2019.
- A Space Utilization Technique for Vehicle Parking using Neural Networks, International Conference on Recent Trends in Computing (ICRTC) held at SRM Institute of Science & Technology, Ghaziabad, India, 27<sup>th</sup> -28<sup>th</sup> December 2018.
- An Enhanced Vehicle Parking Management using Artificial Intelligence, International Conference on System Modeling & Advancement in Research Trends (SMART), **IEEE (Indexed in Scopus)** held at Teerthanker Mahaveer University, Moradabad, India, 23<sup>rd</sup> - 24<sup>th</sup> November 2018.
- EEG Signal Classification for Real Time Neuro Marketing Applications, International Conference on Advances in Computing & Communication Engineering (ICACCE), **IEEE (Indexed in Scopus)** held at Paris, France, 22<sup>nd</sup>- 23<sup>rd</sup> June 2018.
- An Enhanced Framework for Intelligent Parking in Wireless Sensor Networks, National Conference on Nanoscience and Technologies in Digital India (NANOTCON) held at Shobhit Deemed University, Meerut, India, 27<sup>th</sup> -28<sup>th</sup> April 2018.
- Comparison of Clustering Algorithm in Data Mining, National Conference on Research & Development in Computational & Information Technology (NCRDCIT) held at SRM University, NCR Campus, Ghaziabad, India, 7<sup>th</sup> -8<sup>th</sup> September 2012.

- Huffman based Lossless Compression for Dental X-ray Images, National Conference on Advancements in Communication, Computing and Signal Processing (CACCCSP) held at Gautam Buddha University, Greater Noida, India, 16<sup>th</sup> -17<sup>th</sup> April 2011.

### **Awards and Achievements**

- Certified as Topper with Gold Medal (100% marks) in Introduction to Internet of Things by National Programme on Technology Enhanced Learning (NPTEL), 2019.
- Received Letter of Appreciation for Excellent Academic Performance and valuable Contribution to the growth of organization from SRM University, NCR Campus in 2012.

### **Workshops/Seminars/FDPs**

- Faculty Development Programme on Advanced Security Analytics and Machine Learning held at SRM Institute of Science and Technology, Delhi-NCR Campus from 18<sup>th</sup> – 23<sup>rd</sup> April 2022.
- Faculty Development Programme on Cyber Physical Systems and Industrial IOT in association with AICTE Training and Learning Academy (ATAL) held at SRM Institute of Science and Technology, Delhi-NCR Campus from 17<sup>th</sup> – 21<sup>st</sup> January 2022.
- Faculty Development Programme on Advanced Technologies for Societal Changes: A 360-degree view in association with AICTE Training and Learning Academy (ATAL) held at University of Petroleum and Energy Studies, Dehradun from 22<sup>nd</sup> – 26<sup>th</sup> November 2021.
- Faculty Development Programme on Building Data Science Applications with Python held at Raj Kumar Goel Institute of Technology, Ghaziabad from 7<sup>th</sup> – 11<sup>th</sup> September 2021.
- Faculty Development Programme on Deep Learning for Computer Vision in association with AICTE Training and Learning Academy (ATAL) held at Krishna Institute of Engineering and Technology, Ghaziabad from 26<sup>th</sup> – 30<sup>th</sup> July 2021.
- Faculty Development Programme on Computer Science & Biology in association with AICTE Training and Learning Academy (ATAL) held at SRM Institute of Science and Technology, Delhi-NCR Campus from 19<sup>th</sup> – 23<sup>rd</sup> October 2020.
- Webinar on Significance of AI and ML during Difficult Time of COVID-19 organized by SRM Institute of Science & Technology, Delhi NCR Campus on 6<sup>th</sup> May 2020.
- Webinar Series on COVID-19 Awareness organized by SRM Institute of Science & Technology, Chennai from 27<sup>th</sup> -28<sup>th</sup> April 2020.
- Webinar on Strategic Value of IP/Patents organized by Amity Innovation Incubator on 26<sup>th</sup> April 2020.
- Online Workshop on COVID-19 Application (with Real Data) using Python Programming in collaboration with Indian Engineering Teachers Association on 17<sup>th</sup> April 2020.

- Faculty Development Programme on System Administration & Data Sciences held at Amity University, Lucknow Campus from 20<sup>th</sup> -28<sup>th</sup> June 2019.
- National Workshop on Applications of Technical Terminology in Modeling, Optimization and Computing in Science & Technology organized by MHRD, held at SRM Institute of Science & Technology, NCR Campus from 26<sup>th</sup> -28<sup>th</sup> April 2019.
- National Workshop on Symbolic 2D/3D Image Processing using LIPS held at University of Petroleum and Energy Studies, Dehradun on 22<sup>nd</sup> November 2018.
- AICTE Approved Short Term Course on Internet of Things held at National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh from 6<sup>th</sup> -10<sup>th</sup> August 2018.
- A Multi-Disciplinary Faculty Development Programme Series, ERUDITIA held at SRM Institute of Science & Technology, NCR Campus from 12<sup>th</sup> -23<sup>rd</sup> June 2018.
- Faculty Development Programme on Android Development in association with NIIT Technologies held at SRM Institute of Science & Technology, NCR Campus from 11<sup>th</sup> - 16<sup>th</sup> January 2016.
- National Workshop on Cyber Crime, Security and Information Protection in association with ISTE held at SRM University, NCR Campus on 23<sup>rd</sup> February 2015.
- Workshop on Network Simulators (NS-2) in association with CSI held at SRM University, NCR Campus from 29<sup>th</sup> -30<sup>th</sup> December 2014.
- Workshop on MATLAB in association with Aedifico Tech Pvt. Ltd. held at Lingaya's University, Faridabad on 6<sup>th</sup> February 2014.
- Faculty Development Programme on Paradigm Shift on Pedagogy & EIM held at SRM University, NCR Campus from 8<sup>th</sup> -9<sup>th</sup> February 2012.

**Work Experience:** 12 years

Serving as Assistant Professor at SRM Institute of Science and Technology (Formerly known as SRM University), Delhi NCR Campus since July 2011.

**Professional Memberships:**

- Institution of Engineers (IEI), India, Membership Number M-166217-6
- Institute of Electrical and Electronics Engineers (IEEE), Membership Number 99401789
- Indian Society for Technical Education (ISTE), India, Membership Number LM-93626
- Teaching and Education Research Association (TERA), India, Membership Number M110449
- International Association of Engineers (IAENG), Hong Kong, Membership Number 259989.
- Indian Engineering Teachers Association (IETA), India, Membership Number 242583.