



Dr. Kanika

Assistant Professor

(Department of Computer Science and Engineering)

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Professional Qualification:

- Ph.D in Computer Science and Engineering from Dr. K.N.Modi University, Newai, 2017.
- M.Tech in Computer Science and Engineering from SRM Institute of Science & Technology, NCR Campus, 2012.
- B.Tech in Information Technology from UPTU, 2010

Publications

- Optimized Resource Allocation for Fog Network using Neuro-fuzzy Offloading Approach, Arabian Journal for Science and Engineering, (SCI), January 2022
- Redundant IaaS Cloud Selection with Consideration of Multi Criteria Decision Analysis in Science Direct, Elsevier (Scopus) Volume 167, Page no- 1325-1333, May 2020.
- Implementation Experience with Intelligent Power-Saver MANET Routing Protocol: IPSTORA, IEEE Second International Conference on Green Computing and Internet of Things, Published by IEEE, July 2019.
- Application of Internet of Things in Fast Moving Consumer Goods Sector to increase Business Efficiency, IEEE Second International Conference on Green Computing and Internet of Things, Published by IEEE, July 2019.
- Implementation & Analysis of IPS AODV for Emergency Scenario in MANET, International Journal of Computer Science & Information Technology, ISSN-0975-9646 Vol 7, Issue 4 Page No. 1783-1787, July August 2016.
- Review of Routing Protocols in MANET by Evaluating Energy Consumption, International Journal of Advanced Research in Computer Science & Software Engineering, ISSN-2277-128X, Vol 5, Issue 8, Page No. 207-211, August 2015.
- Jitter Analysis for Moving Vehicle in IEEE 802.11 Adhoc Scenario, International Journal of Innovative Research in Engineering & Management, Vol 2, Issue-3, May 2015.

Conferences

- Application of Cloud Computing and Big Data in Accounting Software, Eighth International Conference on Science Technology Engineering and Mathematics (ICONSTEM), IEEE, June 2023
- Promising Highest Resilient Network using preventive Route Selection algorithm-IPSDSDV in MANET, Second International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2020) (Scopus), July 2nd- 4th, 2020.
- Multi Cloud providers for Micro- Services: “A Review in 1st International Conference on Advancement in Engineering Sciences (AES2019)”.
- Redundant IaaS Cloud Selection with Consideration of Multi Criteria Decision Analysis in “International Conference on Computational Intelligence and Data Science (ICCIDS 2019), Elsevier (Scopus)”, 2019.

- IPS-DSDV: “An Intelligent Power Saver MANET Routing Protocol Accepted in International Conference on Computational Intelligence and Data Analytics (ICCIDA-2018)”.
- Implementation Experience with Intelligent Power-Saver MANET Routing Protocol: IPSTORA, “IEEE (Scopus) Second International Conference on Green Computing and Internet of Things, August 16- 18, 2018”.
- Application of Internet of Things in Fast Moving Consumer Goods Sector to increase Business Efficiency, “IEEE Second International Conference on Green Computing and Internet of Things, (Scopus) August 16-18,2018”.
- Watershed Segmentation Technique: A Survey, International Conference on Recent Development in Computational And Information Technology (ICRDCIT’16), ISBN: 978-93-84935-81-8, Page No. 1-4, February 2016”.
- Data Mining In Medical Field By Using Decision Tree Induction, ISBN-978-93-81583-77-7, International Conference On Advancements In Computer Applications And Software Engineering (Case-2012), 2012 Chittorgarh”.
- Using Wimax Technique To Secure Communication In Mobile Wireless Networks, National Conference On Excellence In Technology & Management ' (NCETM 2011), ISBN- 978-93- 81361-04-7, Vol 1, Page No. 458-461, 2011”.
- Security Enhancement Using Additional Approaches In IEEE 802.16e Standard, International Conference (ICDM, Nov 2011) Ghaziabad”.

Book Chapter

- Opportunities and challenges for smart healthcare system in fog computing, Computational Intelligence in Healthcare Applications, Elsevier (Scopus), July 2022.

Patents

- Indian Patent: “System and Method of Real Time Image Retrieval”, Application Number: 202111003796, Published On 28/01/2021.
- Indian Patent: “IoT Based Data Leakage prevention system for organizations and individuals, Application Number: 202141061247, Published On 07/01/2022.
- Indian Patent: “Container Based Virtualization Framework For Geographic Information Processing System, Application Number: 202211022498, Published On 15/04/2022.
- Indian Patent: “Artificial Intelligence and IoT Based Automatic Smart Health care system to prevent and predict the chances of getting chronic gastrointestinal disorders and chronic cancer using image processing and Deep Learning Algorithms, Application Number: 202341007098, Published On 03/02/2023.

FDP/Workshops/Seminar Attended

- Faculty Development Programme on Emerging Trends and Applications of Machine Learning based Artificial Intelligence held at SRM Institute of Science and Technology, Delhi NCR Campus from 20th - 25th February 2023.
- Faculty development Programme on Advanced Security Analytics and Machine Learning held at SRM Institute of Science and Technology, Delhi- NCR Campus from 18th- 23rd 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 17th – 21st 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 22nd November to 26th November 2021.

- Faculty Development Programme on Building Data Science Applications with python held at Raj Kumar Goel Institute of Technology, Ghaziabad from 7th-11th September 2021.
- Faculty Development Programme on Deep Learning for Computer Vision in association with AICTE Training and Learning Academy (ATAL) held at KIET Group of Institutions, Ghaziabad from 26th July 2021 to 30th 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 19th -23rd October 2020.
- Faculty Development Programme on Machine Learning and Its Applications using Python held at Ajay Kumar Garg Engineering Ghaziabad from 29th June 2020 to 3rd July 2020.
- Certificate of participation in AICTE Recognized Faculty Development Programme on Data Analytics with Python from 22/06/2020 to 26/06/2020 organized by Computer Science and Engineering Department, NITTTR Chandigarh.
- Faculty Development Programme on Machine Learning and Data Science for Engineering Applications from 5th June to 10th June 2020 organized by Shadan College of Engineering and Technology.
- Faculty Development Programme on Machine Learning And its Applications using Python from 29th June to 3 July organized by Ajay Kumar Garg Engineering College.
- Organized Workshop on Artificial Intelligence and Deep Learning with Invited External Guest, Dr. Suneet Kumar Gupta (Professor
- Faculty Development Programme on “Computer Science and Biology in association with AICTE Training and Learning Academy (ATAL) held at SRM Institute of Science and Technology, Delhi-NCR Campus from 2020-10-19 to 2020-10-23.
- Multi Disciplinary Faculty Development Programme Series, ERUDITIA held at SRM Institute of Science and Technology, Delhi NCR Campus from 12th- 23rd June 2018.
- National Workshop on Cyber Crime, Security and Information Protection in association with ISTE held at SRM University, Delhi NCR Campus on 23rd February 2015.
- ISTE STAFF CHAPTER Organized by Indian Society for Technical Education, New Delhi, 19th-24th May 2014.
- Workshop on Network Simulators (NS-2) in association with CSI held at SRM University, Delhi NCR Campus from 29th-30th December 2014.
- Coordinator in ISTE-SRM Short Term Training Programme on “Virtualization Technology using VMware”, held at SRM Institute of Science and Technology from 19th- 24th May 2014.
- Faculty Development Programme on Teaching Ethics in association with CSI held at SRM University, Delhi NCR Campus on 24th January 2014.
- Coordinated one day workshop on Cloud Computing on Jan 2012 in SRM IST NCR Campus

FDP/Workshops/Seminar Organized

- Organized Expert lecture on ERP/ SAP with Invited External Guest, Dr. Kajal Chatterjee from HCL Noida held at SRM University, Delhi NCR Campus on 24/07/2023.
- Organized an expert Lecture on Cyber Security with Invited External Guest Dr. Damodar Sahu (Director Ecosystems and Partnerships Wipro, US) held at SRM Institute of Science and Technology on 3rd April 2023.
- Organized Workshop on Cyber Threats and preventions by CETPA held at SRM Institute of Science and Technology on 6th April 2023.
- Organized an expert Lecture on Cyber Security with Invited External Guest Dr. Debabrata Nayak, Vice President Ericsson Gurgaon held at SRM Institute of Science and Technology on 25th April 2023.
- Organized an Industrial Visit to Bisleri International Pvt Ltd from 2nd- 3rd May 2023.

- Organized Faculty Development Programme on Emerging Trends and Applications of Machine Learning based Artificial Intelligence held at SRM Institute of Science and Technology, Delhi NCR Campus from 20th -25th February 2023.
- Organized Workshop on Artificial Intelligence and Deep Learning with Invited External Guest, Dr. Suneet Kumar Gupta (Professor, Bennet University) held at SRM University, Delhi NCR Campus from 3rd- 4th January 2019.
- International Conference on Recent Development in Computational and Information Technology (ICRDCIT) in association with with CSI and ISTE held at SRM University, Delhi NCR from 7th- 8th March 2014.
- National Conference on Recent Development in Computational and Information Technology (NCRDCIT) in association with DRDO held at SRM University, Delhi NCR Campus from 7th-8th September 2012.
- National Seminar on Latest Trends in Networking and IPv6 in association with CISCO India Private Ltd. held at SRM University, Delhi NCR Campus on 20th March 2012.
- National Workshop on Information Security in association with DRDO held at SRM University, Delhi NCR Campus on 23rd February 2012.
- National Workshop on Cloud Computing in association with TCS held at SRM University, Delhi NCR Campus on 13th January 2012.

Achievements and Awards

- Topper in Post Graduate Degree (Certificate of Honor Academic Excellence Award), 2011

Certifications/MOOCs

- Software Testing from Python.
- Introduction to Artificial Intelligence from Simplilearn.
- Introduction to Data Analytics from Simplileran.
- Computer Networks and Internet Protocol from Simplilearn.
- Elite Certificate from NPTEL in Cloud Computing.
- Course Certificate from Coursera in Blockchain Basics.
- Certified in E-Quiz series on Covid 19 for Spreading Awareness organized by University of College of Science (UCoS), Mohanlal Sukhadia University (MLSU), Rajasthan.

Work Experience: 11 Years

Working as Assistant Professor in Computer Science and Engineering at SRM Institute of Science and Technology (Formerly known as SRM University), Delhi NCR Campus, since July 2012.

Memberships

- Institute of Electrical and Electronics Engineers (IEEE), USA, Membership Number 99370160
- Indian Society for Technical Education (ISTE), India, Membership Number LM 93627