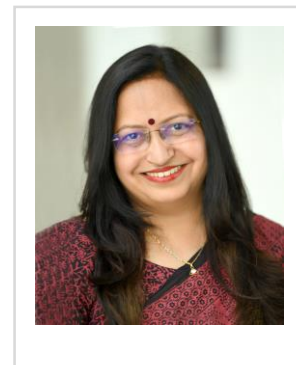


Name : Dr. Ruchi Garg
Designation : Assistant Professor - Information Technology
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Phone :



BIOSKETCH:

“Learning process should never stop.” is the key motto of Dr. Ruchi Garg. She is an Information Technology (IT) faculty with a rich academic experience, who believes in imparting education by connecting the technical knowledge with practical applications in day-to-day life. She is a passionate learner for cutting edge technologies and its usefulness in management domain.

Besides professional work, she also participates actively in social work and is associated with volunteer-based organizations.

EDUCATION:

- **Ph.D.**, Computer Applications, Maulana Azad National Institute of Technology, NIT, Bhopal, M.P., 2021

Thesis Title: Design of an Efficient IPv6 Header Compression Scheme for Packet Transactions in 6LoWPAN

- **MCA**, Barkatullah University, Bhopal, M.P., 1999, secured 75%
- **B.Sc.** , Delhi University, Delhi, 1996, secured 72.5%
- **12th** , M.P. Board, Bhopal, M.P., 1993, secured 74.8%
- **10th** , M.P. Board, Bhopal, M.P., 1991, secured 75.2%

AREA OF INTEREST AND RESEARCH

- Cloud Computing
- Big Data Analytics
- Internet of Things

TEACHING COURSES AND NEW COURSES DEVELOPED

EXPERIENCE

- Assistant Professor, Information Technology, Birla Institute of Information Technology, Greater Noida, June 2023 – Present.
- Associate Professor, Lloyd Business School, Lloyd Group of Institutions, Greater Noida, December 2021 – June 2023.
- Guest Faculty, Department of CSE, School of ICT, Gautam Buddha University, Greater Noida, September 2020 – November 2021.
- Associate Professor Global Institute of Information Technology, Greater Noida, February 2005 – July 2014.
- Senior Lecturer, Gujarat Law Society Institute of Computer Applications (GLSICA), Gujarat, August 1999 – February 2001.

ACADEMIC POSITIONS AND ASSIGNMENTS

- PGDM Program Coordinator for Batch year 2022, Lloyd Business School, 2022-2023.
- CSR Club Head, Lloyd Business School, 2021-2023.
- Coordinator of Computer Applications Department, Global Institute of Information Technology, Greater Noida, 2006 – 2014.
- Examination Controller, Global Institute of Information Technology, Greater Noida.
- Managing Editor of Journal of Computer science and applications, Global Institute of Information Technology, Greater Noida.

PROFESSIONAL ASSOCIATION AND BOARD PARTICIPATION

RECOGNITIONS AND AWARDS

- Rising Star Award at Lloyd Business School, Greater Noida, 2022.
- College Topper Award in Delhi University by Chief Minister Dr. Sahib Singh Verma, 1996.

RESEARCH FUNDING AND CONSULTING

- Travel grant from MP Council of Science and Technology for presenting research work at International Conference on Advances in Information Processing and Communication Technology - IPCT 2016, Rome, Italy

RESEARCH PAPERS AND WORKING PAPERS

- R. Garg, S. Sharma, "Cooja based approach for estimation and enhancement of lifetime of 6LoWPAN environment," International Journal of Sensors, Wireless Communications and Control, Bentham Science Publishers, vol. 9, pp. 1-10, 2019, doi:10.2174/2210327909666190409124604 (SCOPUS Indexed)
- R. Garg, S. Sharma, "Modified and Improved IPv6 Header Compression (MIHC) scheme for 6LoWPAN," Wireless Pers Commun, Springer Publications, vol. 103, no. 3, pp. 2019-2033, 2018, doi:10.1007/s11277-018-5894-z (SCIE and SCOPUS indexed)
- R. Garg, S. Sharma, "A study on need of adaptation layer in 6LoWPAN protocol stack", International journal of wireless and microwave technologies (IJWMT), vol.7, no.3, pp.49-57, 2017, doi: 10.5815/ijwmt.2017.03.05.
- R. Garg, S. Sharma, "Comparative study on techniques of IPv6 header compression in 6LoWPAN," in Proc. of the Intl. Conference on Advances in Information Processing and Communication Technology (IPCT), Rome, Italy, 2016, pp. 34-38, doi: 10.15224/ 978-1-63248-099-6-33.
- S. Srivastava, R. Garg, "Cloud Computing: A Concept of Computing Resources on Internet and its Designing," Anveshanam-The Journal of Computer Science & Applications, vol.2, no.1, pp: 36-44, 2014.
- R. Garg, "Li-Fi: Data On light Instead of Online," Anveshanam-A National Journal of Computer Science & Applications, vol.1, no.1, pp: 33-37, 2013.

RESEARCH IN PROGRESS

CASE REPOSITORY AND PUBLICATIONS

BOOKS, CHAPTERS AND TECHNICAL REPORTS

- Ruchi Garg and Garima Verma, "Operating Systems," Publisher: BPB Publications, First edition year: 2015, Number of pages: 248, ISBN: 9788183335249.

- Ruchi Garg, "Operating Systems golden solutions," Publisher: BPB Publications, First edition year: 2015, Number of pages: 100, ISBN: 9788183335393.
- R. Garg and H. Garg, "Internet of Things-Enabled Smart Entry System for Telecom Sites" in Integration and Implementation of the Internet of Things Through Cloud Computing, IGI Global, Chapter 8, pp: 155-178, 2021, doi: 10.4018/978-1-7998-6981-8.ch008

EDITORIAL POSITIONS AND REVIEWS

- Managing Editor of Journal of Computer science and applications, Global Institute of Information Technology, Greater Noida.
- Reviewer in IET Communications since 2020.

CONFERENCE, SEMINAR PAPER AND PRESENTATIONS

- Presented paper at International Conference on Artificial Intelligence and Sustainable Computing for Smart Cities (AIS2C2), 22-23 March, 2021.
R. Garg and S. Chandel, "IoT based Design of an Intelligent Light System using CoAP". Proceedings published in Springer Publications. (Scopus Indexed)
- Presented paper at International Conference organized in Italy.
R. Garg and S. Sharma, "Comparative Study on Techniques of IPv6 Header Compression in 6LoWPAN," Published in Proc. of the Intl. Conference on Advances in Information Processing and Communication Technology - IPCT 2016, Italy, pp. 34-38, ISBN: 978-1-63248-099-6 doi: 10.19224/978-1-63248-099-6-33
Travel grant from MP Council of Science and Technology
Travel grant reference number: 1687/CST/R&D (ITG)/2016
- Presented paper at Centre for development of advanced computing (CDAC), Noida (A scientific society of department of IT, Ministry of communications and IT, Govt. of India)
Singh, R. Garg and S. Choudhary (2010), "E-Judiciary: Investing in justice in the socio-economy," conference on Competitive positioning in the current economic perspective.
- A. S. Lather, A. Singh and R. Garg (2010), "E-Judiciary: User acceptance as a key to success," conference on Information management in knowledge economy at University school of management studies, jointly with IETE, CSI and IEEE.

MAGAZINE AND NEWSPAPER ARTICLES

- Is your child suffering from Internet?, Article in magazine Neighbourhood @LIVE, February 2010.
- E-Learning in India: New vistas of knowledge transfer, Article in magazine Neighbourhood @LIVE, January 2010.
- Mobile number portability, Article in magazine Neighbourhood @LIVE, December 2009.

INTERVIEWS AND MEDIA IMPACT

MDP SESSIONS, WORKSHOPS AND TECHNICAL LECTURES

- Session Chair for the International Conference on “Fostering Resilient Business Ecosystems and Economic Growth: Towards the Next Normal”, held at Dr. D. Y. Patil B-School, Pune, India in association with Dr. Soetomo University, Indonesia and AIMS, India, April 27 to April 29, 2022.
- Session Chair for workshop “DIGITIZATION AND CIRCULAR ECONOMY PRACTICES IN INDIA: A DRIVE FOR SWACHH BHARAT ABHIYAN AND DIGITAL INDIA” held at O.P. Jindal Global University, 16th December to 17th December 2022. The workshop is sponsored by the Indian Council of Social Science Research (ICSSR).
- Expert speaker in FDP 'Applications of Machine Learning in post pandemic era' on topic “Application of IoT and AI/ML in Monitoring of Electric Vehicles” held School of Information Technology & Engineering VIT, Vellore (TN)-India, from 4th July 2022 to 8th July 2022.
- IoT (Internet of Things) Wireless & Cloud Computing Emerging Technologies, Issuing Organization: Coursera, Issue date: 9 June 2020, credential ID: 8M98QBV9J6GM
- Data Analysis with Python, Issuing Organization: IBM, Issue date: 3 October 2022, Certificate ID Number: f1f6f35f74cd48b79474fd65ecc5afde
- Fundamentals of IoT, Issuing Organization: IBM, Issue date: 24 December 2022, Certificate ID Number: 6f7db25af0a04011875fa00b9905e14a
- Course on Network Protocols and their simulations using NS-2 & NS-3 from 19 August to 23 August 2015 at Indian Institute of Technology, IIT(ISM), Dhanbad.
- Short term training programmer on Network Simulation & IPv6 (NS-2014) from 13th October to 17th October 2014 at Maulana Azad National Institute of Technology, NIT, Bhopal.
- Short term training programme on Network Simulation (NS-2013) from 19th August to 23rd August 2013 at Maulana Azad National Institute of Technology, NIT, Bhopal

PROFESSIONAL ASSOCIATIONS AND MEMBERSHIPS

DOCTORAL DISSERTATIONS AND AWARDS

SOCIAL ENGAGEMENT

- City Academic Head in Volunteer Based Organization, Robin Hood Army, 2019-2021.
- Active volunteer in Volunteer Based Organization, Robin Hood Army, 2018 – Present.