




Curriculum Vitae

Vinay Rishiwal

Title	Dr.	First Name	Vinay	Last Name	Rishiwal	
Designation	Professor					
Department	Computer Science and Information Technology					
Address	Department of CS&IT, IET, MJP Rohilkhand University, Bareilly, UP, India.					
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Education						
Subject	Institution	Year	Details			
Ph.D. (Computer Science and Engineering)	Gautam Buddh Technical University, Lucknow.	2011	Thesis topic: Study and Analysis of Some QoS Routing Issues in Mobile Adhoc Networks			
B.E. (Computer Science and Engineering)	SRMS College of Engineering and Technology, Bareilly	2000	Subjects: computer Science and Engineering.			
Career Profile						
Organisation / Institution	Designation	Duration	Role			
Department of CS &IT, IET, MJP Rohilkhand University, Bareilly.	Professor	2019 till date	Teaching and Research			
Department of CS &IT, IET, MJP Rohilkhand University, Bareilly.	Associate Professor	2016-2019	Teaching and Research			
Department of CS &IT, IET, MJP Rohilkhand University, Bareilly.	Asst. prof. (AGP.8000)	2013-2016	Teaching and Research			
Department of CS &IT, IET, MJP Rohilkhand University, Bareilly.	Asst. prof. (Sr. Scale)	2008-2013	Teaching and Research			
Department of CS &IT, IET, MJP Rohilkhand University, Bareilly.	Lecturer	2002-2008	Teaching and Research			
Rakshpal Bahadur Management Institute, Bareilly	Lecturer	2001-2002	Teaching			
Research Interests / Specialization						
Optimized Communication Strategies for WSN, QoS Routing Issues in Advance Wireless Networks, Security aspects in cloud computing and Social Networks, IoT and Machine Learning						
Teaching Experience (Subjects/Courses Taught)						
20+ Years (Theory of Computation, Computer Networks, Data Communication, etc.)						
Administrative Responsibilities						
<ul style="list-style-type: none"> ➤ Assistant Dean, Student Welfare ➤ Head, Training & Placement ➤ Member Secretary NAAC/IQAC, MJPRU ➤ Academic Nodal Officer TEQIP III, MHRD ➤ Nodal Officer, Abhyuday Scheme, 2021 ➤ Program Chair, Student Activities Committee IEEE UP Section ➤ Convener, Board of Studies ➤ Member, Research Committee 						

- Member ShodhGanga Committee
- Faculty Advisor, ACM Chapter

Projects, Honors & Awards

- Submitted a project titled “Prediction of Tuberculosis Drug Resistance Status from Socio Demographic, Clinical and Behavioral Data Using Artificial Intelligence” to Indian Council for Medical Research (ICMR) , Duration: 3 Years, Cost 2.14 crores
- Joint Research Development project on “Intelligent Image Filtering System in Mobile Devices based on Machine Learning” in association with B.M.S. College of Engineering, Bangalore and Xkanda Technologies private Ltd. Bangalore (completed-20).
- MHRD sponsored project on “An Emergency-Adaptive Routing Approach for Wireless Sensor Networks”, (completed- 2020).
- UGC sponsored project on “Performance Improvement of Secret Image Sharing Schemes,”(duration 02 years. 2012-2014) – **Status: Completed**
- Senior Member IEEE, Member ACM
- Presently working (2019) as Convener, Student Activity for IEEE UP Section.
- Worked as Convener Web/NL Committee for IEEE UP Section in the duration 2016-2018
- Best paper award in GLOBECOM 2018, held at Abu-Dhabi.
- Appreciation award for Convener, Web/NL Committee IEEE UP Section, 2017.
- Academic Coordinator, TEQIP III Project , MHRD, Rs. 10 Crore (2017-2020)
- Asst. Coordinator (Core Member), TEQIP II Project, MHRD: Rs. 10 Crores (100 Million). (2014-2017)
- Best paper award in ICNGCCT 2015 held at Dubai.
- Recognized in the list of who is who in the world (as a Researcher) by Marquis Society, USA.
- Nominated among 2000 intellectuals by Cambridge, United Kingdom.
- Got the Best Paper Award in IEEE Conferences at Rasoni College, Nagpur, 2008 and in ICNGCT Dubai.
- General chair of International conferences of IEEE and Springer, IoT-SIU, ICACCA, ICAREMIT, MARC

Patents: 12 (09 National + 03 International)

Publications: 103, Journals: 38, International Conferences: 56, National Conferences: 09

PATENTS- International

1. Vinay Rishiwal et al., “AMTH- Biomedical Waste Management: An IoT- Based System for Biomedical Waste Management Including Ayurveda Hospitals (**Granted: 29/10/2020**)
2. Krishan Chandra Mishra, Vinay Rishiwal et al., “ISML – Stock Prices Predictor: Intelligent Stock Prices Predictor Using Machine Learning” (**Published/Granted on 09/11/2020**)
3. Vinay Rishiwal et al., “Healthcare Data Exchange using Blockchain based Technology” (**Filed on 19/04/2021, Published and granted on 26/05/2021**)

PATENTS- National

4. Vinay Rishiwal et al., “CTAO – Educational Monitoring: IOT based Education Monitoring to Checking the Class Teacher Available in a Class and Notes Available Online Notified. (**Published on 23/10/2020**)
5. Vinay Rishiwal et al., “BUVT – Face Recognition BOT: Face Recognition BOT Their Unique Voice Using IOT-based Technology” (**Published on 23/10/2020**)
6. Tanuja Bhatt, Vinay Rishiwal et al., “Education System Online Automation using Cloud Computing,” (**Published on 03.05.2021**)
7. Krishan Chandra Mishra, Vinay Rishiwal et al., “ICS-Aerial Vehicle: Intelligent Aerial Vehicle Using Camera, Wireless Communication Module Patrols above Swimmers System” (**Published on 08/01/2021**)
8. Krishan Chandra Mishra, Vinay Rishiwal et al., “INUM- Human Immune Detection System: Human Immune Level Detection and Notification System using Mobile Phone” (**Published on 11/12/2020**)
9. Vinay Rishiwal et al., “SUAV- Women Security: Women Security using Street Light and Auto Run Unmanned Aerial Vehicle Using IoT Based Technology” (**Published on 09/10/2020**)
10. Rakesh Kumar Yadav, Vinay Rishiwal et al., “IVH- Sanitizer System: Intelligent Vehicle Hand Sanitizer System using Pre-Instruction” (**Published on 28/08/2020**)
11. Amit Kumar Verma, Vinay Rishiwal et al., “Sanitizer Composition of MADHUCA Longifolia” (**Published on 28/08/2020**)

12. Naveen Rathee, Rakesh Kumar Yadav, Vinay Rishiwal et al., "S-ROBOT: Intelligent Room Surface/Floor-Cleaning ROBOT" (**Published on 08/01/2021**)

RECENT PUBLICATIONS

1. Aditya Tandon, Pramod Kumar, Vinay Rishiwal, Mano Yadav, Preeti Yadav, "Bio Inspired Hybrid Cross Layer Routing Protocol for Energy Preservation in WSN-Assisted IoT," *KSII Transaction on Internet and Information System (SCIE)*, Vol 15, No. 4, pp. 1317-1341, Apr 2021.
2. Omkar Singh, Vinay Rishiwal, Rashmi Chaudhry, Mano Yadav, "Multi-Objective Optimization in WSN: Opportunities and Challenges, accepted in *Wireless Personal Communication (SCIE)*, Springer, 2021.
3. Vinay Rishiwal and Omkar Singh, Energy Efficient Emergency Rescue Scheme in Wireless Sensor Networks, *International Journal of Information Technology*, **Springer**, (<https://doi.org/10.1007/s41870-020-00584-9>), 2021.
4. Vinay Rishiwal, Preeti Yadav, Omkar Singh and B. Prasad, "Optimizing Energy Consumption in IoT based Scalable Wireless Sensor Networks," *IJSDA (e-SCI and Scopus indexed)*, accepted, vol 11, no. 3, 2021.
5. Omkar Singh, Vinay Rishiwal, Mano Yadav, " Multi-Objective Lion Optimization for Effective Multipath QoS technique in WSNs, *IJCS- Wiley (SCIE)*, Communicated, 2021.
6. Gaurav Kumar and Vinay Rishiwal, "Malicious User Detection by web Mining based Artificial Intelligence Technique," *IJUFKS (SCIE)*, Vol. 28, No. 01, 2020.
7. Anupama Sharma, Abhay Bansal and Vinay Rishiwal, "SBADR: stable and bandwidth aware dynamic routing protocol for mobile ad hoc network," *IJPCC (Scopus Indexed) Emerald*, vol 16, no. 3, pp. 205-221, 2020.
8. Anupama Sharma, Abhay Bansal and Vinay Rishiwal, "Efficiency Parameters for Node Indexing to Get Energy Efficient and Bandwidth Aware Path," *IJSWCC, Bentham Science (Scopus Indexed)*, vol 10, issue 5, 2020.
9. Lalit Kumar and Vinay Rishiwal, "Design of retrievable data perturbation approach and TPA for public cloud data security," *Wireless Personal Communication, Springer (SCIE)*, 108(1), pp. 235-251, 2019.
10. Omkar Singh and Vinay Rishiwal "Scalable Energy Efficient Routing Mechanism Prolonging Network Lifetime in Wireless Sensor Networks", *International Journal of Systems, Control and Communications, Inderscience (Scopus Indexed)*, ISSN 1755-9359, vol. 2, No. 3, pp. 1-17, 2019.
11. Jitendra Kumar, Vinay Rishiwal and MIH Ansari, "Quality of Service in Wireless Sensor Networks: Imperatives and Challenges," *IJSWCC Bentham Science (Scopus Indexed)*, ISSN: 2210-3287, vol. 8, no. 3, 2019.
12. Himanshu Sharma, Omkar Singh, Vinay Rishiwal et al., "Energy Efficient Routing Protocol Prolonging Network Lifetime for MANETs," *IJSTR (Scopus Indexed)*, ISSN 2277-8616, pp. 1847-1853, vol. 8, Issue. 8, 2019.
13. Omkar Singh and Vinay Rishiwal, "Study of Quality of Service Routing in Wireless Sensor Networks," *IJSWCC Bentham Science (Scopus Indexed)*, ISSN: 2210-3287, pp. 297-313, vol. 8, no. 3, 2018.
14. Omkar Singh and Vinay Rishiwal, "QoS Aware Multi-hop Multi-path Routing Approach in Wireless Sensor Networks," *IJSWCC Bentham Science (Scopus Indexed)*, ISSN: 2210-3287, pp. 43-52, vol. 8, no. 3, 2018.
15. Anupama Sharma and Vinay Rishiwal, "Selection of High Quality Path through MxAODV in Mobile Ad-Hoc Network," *IJSCC Inderscience (Scopus Indexed)*, (DOI: 10.1504/IJSCC.2019.097403), vol. 10, no. 1, 2018.

16. Vinay Rishiwal, Mitul Yadav and Sandeep Agarwal, "Energy consumption Pattern and Scalability of Routing Protocols for Heterogeneous MANETs," IJCNDIS Inderscience (**Scopus Indexed**), ISSN 1754-3924, vol. 18, no. 1, pp.83-109, 2017.
17. Omkar Singh, Vinay Rishiwal and Lalit Kumar, "Secure Energy Aware Routing in Wireless Sensor Networks, IEEE IoT-SIU, KEC, Ghaziabad, India, pp. 1-6, ISBN 978-1-7281-1253-4, 2019.
18. Vinay Rishiwal, Omkar Singh et al., "Base Station Oriented Multi Route Diversity Protocol for Wireless Sensor Networks", IEEE GLOBECOM, Abu Dhabi, U.A.E, ISBN 978-1-5386-4920-6, 2018.
19. Kumar Nalinaksh, Vinay Rishiwal, Maria Ganza et al., "An Internet of Things (IoT) solution framework for agriculture in India and other Third World countries", IEEE ICACCA, Malasia, ISSN 2642-7354, 2018.
20. Mesfin Jariso, Baseem Khan, Sudeep Tanwar, Sudhanshu Tyagi, Vinay Rishiwal, "Hybrid Energy System for Upgrading the Rural Environment, IEEE GLOBECOM, Abu Dhabi, UAE, ISBN 978-1-5386-4920-6, 2018.
21. Omkar Singh, Vinay Rishiwal and Mano Yadav, "Energy Efficient Routing Scheme for Enhancing Lifetime in Wireless Sensor Networks", IEEE International Conference on IoT-SIU, ISBN 978-1-5090-6785-5, 2018.

Books: Authored/Edited: 03

1. Dr. Vinay Rishiwal, Dr. Sudeep Tanwar and Dr. Rashmi Chaudhary, "Blockchain for 6G-Enabled Network-based Applications-A Vision, Architectural Elements and Future Directions", **Springer Nature**, Book Submitted, 2021.
2. Dr. Suman Lata Tripathi, Dr. Mithilesh Kumar Dubey, Dr. Vinay Rishiwal and Dr. Sanjeev Kumar Padmanaban, "Introduction to AI Techniques for Renewable Energy System", **CRC Taylor & Francis**, 2021. (Published)
3. Dr. Vinay Rishiwal, Dr. Pramod Kumar, Dr. Anuradha Tomar, Dr. Priyan Malarvizhi Kumar, Towards the Integration of IoT, Cloud and Big Data: Services, Applications and Standards, **Springer-Nature, 2022 (Approved and Ongoing)**

Other Details

- **Phd Supervised (Awarded : 05, Submitted:02, Ongoing: 05)**
- Worked as coordinator/Program Chair for many FDPs, conferences and Workshops of International/national repute.
- Reviewer of Many peer reviewed International Journals and conferences.
- Senior IEEE Member (**Membership Number : 92134039**)
- Member, ACM (**Membership number: 2703150**)
- Member IACSIT (Singapore), **Membership Number : 80332293**
- **Senior Member**, Universal association of Computer and Electronic Engineers (UACEE), **SNM-1003560**.
- Member, **Machine Intelligence Research Lab**, USA.
- Academic and Project In charge (Department)
- Proctor of the University, Member of various committees of the university, like sports, website, BOS, Internet, Antiragging, NBA, TEQIP-II, TEQIP III Etc.
- **Attended and delivered** the lectures in the various Workshops and STPs on different Computer Science areas, organized by TEQIP programme of AICTE.
- Delivered many keynote/invited lectures in the national/international conferences.
- Designed placement brochure
- Developed T&P and Alumni Portal
- Organized Alumni Meet
- Mentoring Students for IEEEExtreme and ACM ICPC
- Mentor for students in SIH 2019 and 2020

(Prof. Vinay Rishiwal)