



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.				
Phone No (Campus)		+915812520310 (O)				
(Residence) optional						
Mobile		+919412149229				
Fax		+915812520310				
Email		vrishiwal@mjpru.ac.in , vianvrishiwal@gmail.com				
Highest Qualification						
Subject	Institution			Year	Details	
Ph.D. (Computer Science and Engineering)	Gautam Budha Technical University, Lucknow.			2011	Thesis topic: Study and Analysis of Some QoS Routing Issues in Mobile Adhoc Networks	
Career Profile (Total Experience = 22 Years)						
Organization / 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, Machine Learning, Blockchain, IoT, Applications of Technology in Societies Problems						
Teaching Experience (Subjects/Courses Taught)						
22 Years (Theory of Computation, Computer Networks, Artificial Intelligence, Data Communication, etc.)						
Administrative Responsibilities						
<ul style="list-style-type: none"> ➤ Member, Executive Committee and Academic Council, MJP Rohilkhand University, Bareilly ➤ Assistant Dean, Student Welfare ➤ Head, Training & Placement ➤ Member Secretary NAAC/IQAC, MJP Rohilkhand University, Bareilly ➤ Academic Nodal Officer TEQIP II and III, MHRD ➤ Nodal officer of MJP Rohilkhand University for ABACUS Portal UP Government ➤ Nodal Officer of MJP Rohilkhand University for Abhyuday Scheme of UP Government, 2021 ➤ Program Chair, Student Activities Committee/ Web and News Letter IEEE Uttar Pradesh Section ➤ Convener, Board of Studies, MJP Rohilkhand University, and member, BOS for many other universities ➤ Member, Research Committee and Entrance Committee of MJP Rohilkhand University ➤ Member Shod Ganga Committee ➤ Faculty Advisor, ACM Chapter 						

Projects, Honors & Awards

- Received a project titled “A Crop Recommendation System and Supply Chain Management using IoT and Blockchain,” from **Council of Science and Technology- UP, DST, India, 2022. Status: Ongoing**
- Received a project titled “IoT Enabled Early Fire Prevention and Detection in disaster Management,” under **Research and Development Scheme of UP Government, India 2021(22 oct 2021) Status: Ongoing**
- Received a project titled “A Crop Recommendation and Supply Chain Management System using IoT and Blockchain,” under non-government extramural funding of GE Research, Japan, 2022. **Status: Ongoing**
- Received a project from UP Council of Science and Technology Project (DST) titled “Smart Organic Agriculture (SOA): Modelling of Artificial Intelligence based IoT framework for Crop Recommendation and Supply Chain Management using Blockchain,” , UP, India, 2022, **Status: Ongoing**
- 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, India (completed-20). **Status: Completed**
- MHRD/TEQIP sponsored project on “An Emergency-Adaptive Routing Approach for Wireless Sensor Networks”, (completed- 2020), India. **Status: Completed**
- UGC sponsored project on “Performance Improvement of Secret Image Sharing Schemes,”(duration 02 years. 2012-2014) , UP, India– **Status: Completed**
- Senior Member, IEEE
- Senior Member, ACM
- Presently working as Member Adhoc Committee/ Policy for IEEE UP Section.
- Worked as Convener Web/NL Committee and Student Activities for IEEE UP Section, 2016-2018
- Best paper award in GLOBECOM 2018, held at Abu-Dhabi.
- Received an award on Teacher’s Day 2021 and 2022 for best services in education and research.
- Received Best Research award twice in 2022 by GE Research, Japan/USA.
- Received an award for Best Research/Activities at MJP Rohilkhand University, 2022.
- Appreciation award for Convener, Web/NL Committee IEEE UP Section, 2017, 2018 and 2019.
- Academic Coordinator, TEQIP III Project, MHRD, Rs. 10 Crore (2017-2020)
- Asst. Coordinator (Core Member), TEQIP II Project, MHRD: Rs. 10 Crores. (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: 21 (17 National + 04 International)

Publications: 105, Journals: 41, International Conferences: 56, National Conferences: 08

PATENTS- International (All Granted)

1. Vinay Rishiwal et al., “Machine Learning Model for Predicting Severity Prognosis in Patients infected with COVID-19,” **(Published/Granted on 07.10.2021)**
2. Vinay Rishiwal et al., “AMTH- Biomedical Waste Management: An IoT- Based System for Biomedical Waste Management Including Ayurveda Hospitals **(Granted: 29/10/2020)**
3. Krishan Chandra Mishra, Vinay Rishiwal et al., “ISML – Stock Prices Predictor: Intelligent Stock Prices Predictor Using Machine Learning” **(Published/Granted on 09/11/2020)**
4. 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

5. Vinay Rishiwal et al., “A Crop Recommendation and Supply Chain Management System using IoT and Blockchain,” **(Published on 02/06/2022)**
6. Inderpreet Kaur, Vinay Rishiwal et al., “MIMO Antenna for Smart Agriculture System,” **(Published on 13/04/2022)**
7. Rashmi Chaudhary, Vinay Rishiwal et al., “School Girls and Women Safety Empowerment using IoT and Machine Learning Framework,” **(Published on 26/02/2022)**
8. Sudeep Tanwar, Vinay Rishiwal and Sudhanshu Tyagi, “Big Data in Supply Chain Analysis using Block Chain,” **(Published- 2021)**

9. Vinay Rishiwal et al., “**IOE: Digital Education System: Impact of Open Access E-Resources in Digital Education System (Published 2021)**
10. 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)**
11. Vinay Rishiwal et al., “**BUVT – Face Recognition BOT: Face Recognition BOT Their Unique Voice Using IOT-based Technology” (Published on 23/10/2020)**
12. Tanuja Bhatt, Vinay Rishiwal et al., “**Education System Online Automation using Cloud Computing.” (Published on 03.05.2021)**
13. 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)**
14. 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)**
15. 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)**
16. Rakesh Kumar Yadav, Vinay Rishiwal et al., “**IVH- Sanitizer System: Intelligent Vehicle Hand Sanitizer System using Pre-Instruction” (Published on 28/08/2020)**
17. Amit Kumar Verma, Vinay Rishiwal et al., “**Sanitizer Composition of MADHUCA Longifolia” (Published on 28/08/2020)**
18. Naveen Rathee, Rakesh Kumar Yadav, Vinay Rishiwal et al., “**S-ROBOT: Intelligent Room Surface/Floor-Cleaning ROBOT” (Published on 08/01/2021)**

RECENT JOURNAL PUBLICATIONS

1. Udit Agarwal, **Vinay Rishiwal** et al., “Blockchain Technology for Secure Supply Chain Management: A Comprehensive Review, IEEE Access (SCIE), 2022. DOI: [10.1109/ACCESS.2022.3194319](https://doi.org/10.1109/ACCESS.2022.3194319)
2. Indpreet Kaur, Banani Basu, **Vinay Rishiwal** et al., “Annular Ring Ultra-Wideband Antenna Integrated with Metallic via Array for IoT Applications,” IEEE Access (SCIE), pp73446 – 73457, 2022.
3. Preeti Yadav, S.C. Sharma, **Vinay Rishiwal**, “Hybrid Localization schemes using K-fold optimization with Machine Learning in WSN, IJCS- Wiley (SCIE), 2022. DOI: 10.1002/dac.5206
4. **Vinay Rishiwal**, Omkar Singh, Mano Yadav, “ECMR: Energy Constrained Mobile Routing for Wireless Sensor Networks, WPC Springer (SCIE), 2022. <https://doi.org/10.1007/s11277-022-09497-1>
5. Omkar Singh, **Vinay Rishiwal**, Mano Yadav, “Multi-Objective Lion Optimization for Effective Multipath QoS technique in WSNs, IJCS- Wiley (SCIE), 2021, <https://doi.org/10.1002/dac.4969>
6. 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.
7. Omkar Singh, **Vinay Rishiwal**, Rashmi Chaudhry, Mano Yadav, “Multi-Objective Optimization in WSN: Opportunities and Challenges, Wireless Personal Communication (SCIE)- <https://doi.org/10.1007/s11277-021-08627-5>, Springer, 2021.
8. **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.
9. **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.
10. Gaurav Kumar and **Vinay Rishiwal**, “Malicious User Detection by web Mining based Artificial Intelligence Technique,” IJUFKS, World Scientific (SCIE), Vol. 28, No. 01, 2020.
11. Anupama Sharma, Abhay Bansal and Vinay Rishiwal, “SBADR: stable and bandwidth aware dynamic routing protocol for mobile ad hoc network,” IJPC (Scopus Indexed) Emerald, vol 16, no. 3, pp. 205-221, 2020.
12. 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.
13. 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.
14. 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.
15. 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.

16. 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.
17. 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.
18. 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.
19. 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.
20. 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.

Books: Authored/Edited: 04

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", **CRC Taylor and Francis**, <https://www.routledge.com/Blockchain-for-6G-Enabled-Network-based-Applications-A-Vision-Architectural/Tanwar-Rishiwal-Chaudhry/p/book/9781032206103>, 2022.
2. Pramod Kumar, Vinay Rishiwal, R. Sharmila, "Future of Smart Agriculture: The Next Breakthrough in the Rapid Progress of Technologies", **River Publishers** (Approved and under Process), 2022.
3. 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**, Published and available online, 2021.
4. 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 : 06, 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**), **Senior 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.
- Developed T&P and Alumni Portal
- Organized Many Alumni Meets
- Mentoring Students for IEEEExtreme and ACM ICPC
- Mentor for students in SIH 2019 and 2020
- Member of IIC and Other Ranking

(Prof. Vinay Rishiwal)