


Curriculum Vitae

Title	Prof	First Name	Vinay	Last Name	Rishiwal	Photograph
Designation		Professor				
Department		Computer Science and Information Technology				
Address	Campus	Department of CS&IT, IET, MJP Rohilkhand University, Bareilly, UP, India.				
	Residence	NA				
Mobile No.		9412149229				
Email ID		Personal		vianyrishiwal@gmail.com		
		University Domain		vrishiwal@mjpru.ac.in		
Professional Networking ID, i.e. LinkedIn, Twitter etc.		https://www.linkedin.com/in/vinay-rishiwal-040179132 @PRishiwal				
Educational Qualifications (Graduation Onwards)						
Course/Degree		Institution		Year	Details/Thesis Topic/Subjects	
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	
B.Tech – CSE MJP Rohilkhand University, Bareilly (SRMS CET)		Computer Science and Engineering		2000	Computer Science and Engineering	
Career Profile						
Organization / Institution		Designation		Duration	Nature of Duties	
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								
Research Experience in Years: 16 Years								
No of Research Scholars Successfully Guided								
Name of Programme		Awarded			Under Supervision			
Ph.D.		07			06			
M.Phil./ M.Tech		08			--			
Researcher/ Expert ID	Scopus		Orchid		Publons		Vidwan	Google Scholar
	18134724800		0000-0003-2451-4949		AAY-3128-2020		154246	vrishiwal@mjpru.ac.in
Teaching Experience (Subjects/Courses Taught)								
23 Years (Theory of Computation, Computer Networks, Artificial Intelligence, Data Communication, etc.)								
Honours / Awards & Fellowship FOR OUTSTANDING WORK								
Name of Award/ Fellowship		Awarded By						
		Name of Governmental Agency		Name of Government Supported Organization/ Department		Name of International Recognized Body		
Certificate of Appreciation 2023 for the Role played in NAAC A++ Accreditation		--		MJP Rohilkhand University, Bareilly		--		
Outstanding Teacher Award 2023		--		MJP Rohilkhand University, Bareilly		--		
Dronacharya Award		--		KCMT Group of Institutions		--		
Best Research award 2022		--				GE Research, JAPAN		
Award on Teacher’s Day 2021 and 2022		--		MJP Rohilkhand University, Bareilly		--		
Award for Best Research/Activities 2022		--		MJP Rohilkhand University, Bareilly		--		
Appreciation award for Convener, 2019		--		Web/NL Committee		IEEE UP Section		
Best paper award in IEEE		--		IEEE		Abu-Dhabi		

GLOBECOM									
Honor for supporting Martyr's Daughter Initiative, 2022				Institute of Company Secretaries of India					
Academic Award 2017								IEEE UP Section	
Award for Exemplary Services as Student Activity Convener, 2019- 20								IEEE UP Section	
Contribution in IEEE Eu- reka 2020								IEEE Pune Section, Education Society	
Publications /Academic Activities (Numbers Only) (SCI- 17, Scopus – 13/ 61 Scopus conferences, Others- 12, Patents- 24, Cumulative Impact Factor - 35									
Books & Monograph s (Single Author)	-	Research Papers Published in International Journals	42	Papers Presented in Seminars/ Conferences	56	Seminar s/ Confere nces Organiz ed	63	Research Projects (Comple d)	05
Books (Co- authored)	-	Research Papers Published in Other Journals	-	Seminar/ Conferences Attended	70	Worksh ops Organiz ed	80	Research Projects (Ongoing)	02
Books (Edited)	04	Articles Published in Popular Fora, e.g., Websites, Blogs, Newspapers, Magazines etc.	08	Sessions Chaired in Seminars/ Conferences	78	Member ship of Academ ic/ Professi onal Bodies	07	Foreign Countries Visited for Academic Assignme nts	08
Chapters in Edited Books	21			Resource Lectures Delivered	103				

Details of Publications /Academic Activities (2010 Onwards)					
(a) Authored Books/ Monographs					
Name of Book	Year of Publication	Publisher	ISBN No		
(b) Edited Books					
Year of Publication	Title	Publisher	ISBN	DOI No.	Citations
2023	Data Privacy for Education Sector using Blockchain Technology: A Practical Approach	Taylor & Francis			To be assigned
2022	Blockchain for 6G-Enabled Network-based Applications-A Vision, Architectural Elements and Future Directions	Francis	9781032206103	9781032206103	
2021	Introduction to AI Techniques for Renewable Energy System	CRC Taylor & Francis	9780367610920	9780367610920	10
2023	Towards the Integration of IoT, Cloud and Big Data: Services, Applications and Standards	Springer Nature	978-981-99-6034-7	9789819960330	
2023	Future of Smart Agriculture: The Next Breakthrough in the Rapid Progress of Technologies	River Publishers	Approved and Under Publication	Under publication	-
(c) RECENT Papers Published in UGC Care Listed /Indexed/ Peer Reviewed Journals					
Year of Publication	Title	Name of Journal	ISSN No	Citations	Impact Factor
2023	An Efficient Task Allocation with Fuzzy Reptile Search Algorithm for Disaster Management in urban and rural area	Sustainable Computing	2210-5387	-	SCIE (IF 4.923)
2023	Optimized Localization Learning Algorithm for Indoor and Outdoor Localization System in WSNs	WPC Springer	0929-6212	2	(SCIE- IF 2.2)
2023	A comprehensive survey on QoS for video transmission in heterogeneous mobile ad hoc network.	Transactions on Emerging Telecommunications Technologies	2161-3915		SCIE (IF 3.6)
2022	Blockchain Technology for Secure Supply Chain Management: A Comprehensive	IEEE ACCESS	2169-3536	22	(SCIE- IF 3.9)

	Review				
2022	Annular Ring Ultra Wideband Antenna integrated with Metallic via Array for IoT Applications	IEEE ACCESS	2169-3536	2	(SCIE- IF 3.9)
2022	Hybrid localization scheme using K-fold optimization with machine learning in WSN	IJCS Wiley	1099-1131	5	(SCIE- IF 2.0)
2022	ECMR energy constrained mobile routing for wireless sensor networks	WPC Springer	2939–2964	4	(SCIE- IF 2.2)
2021	Bio Inspired Hybrid Cross Layer Routing Protocol for Energy Preservation in WSN-Assisted IoT	KSII Transaction on Internet and Information System	1976-7277	14	(SCIE- IF 0.972)
2021	Multi-Objective Optimization in WSN: Opportunities and Challenges	Wireless Personal Communication	0929-6212	23	(SCIE- IF 2.2)
2021	Energy Efficient Emergency Rescue Scheme in Wireless Sensor Networks	International Journal of Information Technology	2511-2112	7	
2021	Optimizing Energy Consumption in IoT based Scalable Wireless Sensor Networks	IJSDA	2160-9772	4	(e-SCI and Scopus indexed)
2020	Malicious User Detection by web Mining based Artificial Intelligence Technique	IJUFKS	1793-6411	1	(SCIE- 1.5)
2020	SBADR: stable and bandwidth aware dynamic routing protocol for mobile ad hoc network	IJPC	1742-7371	10	(IF 2.6, Scopus Indexed)
2020	Efficiency Parameters for Node Indexing to Get Energy Efficient and Bandwidth Aware Path	IJSWCC, Bentham Science	2210-3287	=	(Scopus Indexed)
2019	Design of retrievable data perturbation approach and TPA for public cloud data security	Wireless Personal Communication, Springer	0929-6212	7	(SCIE-2.2)
2019	Scalable Energy Efficient Routing Mechanism Prolonging Network Lifetime in Wireless Sensor Networks	International Journal of Systems, Control and Communications, Inderscience	1755-9359	4	(Scopus Indexed)

2019	Quality of Service in Wireless Sensor Networks: Imperatives and Challenges	IJSWCC Bentham Science	2210-3287	<u>5</u>	(Scopus Indexed)
2020	Multi-objective Lion Optimization for Efficient Multi-path QoS Routing in Wireless Sensor Networks	Ad Hoc & Sensor Wireless Networks	1552-0633	<u>6</u>	(SCIE- IF 2.0)
2019	Energy Efficient Routing Protocol Prolonging NetworkLifetime for MANETs	IJSTR	2277-8616	<u>3</u>	(Scopus Indexed)
2018	Study of Quality ofService Routing in Wireless Sensor Networks	IJSWCC Bentham Science	2210-3287	<u>2</u>	(Scopus Indexed)
2018	QoS Aware Multi-hop Multi-path Routing Approach in Wireless Sensor Networks	IJSWCC Bentham Science	2210-3287	<u>4</u>	(Scopus Indexed)
2018	Selection of High Quality Path through MXAODV in Mobile Ad-Hoc Network	IJSCC Inderscience	2043-9997	<u>4</u>	(Scopus Indexed)
2018	Energy consumption Pattern and Scalability of RoutingProtocols for Heterogeneous MANETs	IJCND Inderscience	1754-3924	<u>6</u>	(IF 1.3, Scopus Indexed)

Please visit https://scholar.google.co.in/citations?user=Yph_BwAAAAAJ&hl=en for all papers details.

(d) Chapter/Paper Published in Edited Books

Publication		Title of the Book	Title of the Chapter	Name & Address of Publisher	Year	ISBN	DOI	Citation Google/ web of science
National	International							
	Yes	Blockchain for 6G-Enabled Network-Based Applications	Blockchain and 6G Communication with Evolving Applications: Forecasts and Challenges	Taylor and Francis, CRC Press	2022	9781032206103	9781032206103	
	Yes	Towards the Integration of IoT, Cloud and Big Data Services, Applications and	Automatic Smart Irrigation Method for Agriculture Data	Springer Nature	2023	978-981-99-6034-7	978-981-99-6034-7	

		Standards						
	Yes	Towards the Integration of IoT, Cloud and Big Data Services, Applications and Standards	Artificial Intelligence based Plant Disease Detection	Springer Nature	2023	978-981-99-6034-7	978-981-99-6034-7	
	Yes	Introduction to AI Techniques for Renewable Energy System	AI-Based Renewable Energy with Emerging Applications	Taylor and Francis, CRC Press	2021	9780367610920	9780367610920	10

(e) Invited as Resource Lectures Person/Examiner/Expert (Total 103)

Resource person	Detail of Event	Title of Lecture	Date	Institution
1.	2023 International Conference on Emerging Trends in Networks and Computer Communications (ETNCC)	Blockchain powered solutions to Safeguard IoT Devices against Attacks	16/08/2023-18/08/2023	Namibia University of Science and Technology (NUST), Windhoek, Namibia
2.	FDP on Machine Learning for Data Science Application	Advancements and applications of Machine Learning Techniques	17/07/2021	Uttaranchal University, Dehradun
3.	International Conference on Safety of Technological Solutions in the Face of the Economic Crisis	Security Aspects in Tech for Social Good	30/06/2022	Poland
4.	Advances of Artificial Intelligence in Societal Development	AI techniques for Society : Challenges and Solutions	16/08/2021-20/08/2021	Uttarakhand Open University, Haldwani
5.	International Conference on Fourth Industrial Revolution based Technologies and Practices	ML Techniques for Industry 4.0 Applications	26/03/2021 - 27/03/2021	Quantum University Roorkee, India
6.	IEEE Women in Engineering Symposium	Engineering in India: A number Soar	19/02/2016-20/02/2016	IEEE and Tulas Institute Dehradun
7.	International Conference on system modeling and advancement in research trends (Smart)	Cooperative Communications for Mobile Ad-Hoc and Sensor Networks	20/11/2015-21/11/2015	TMU, Moradabad
8.	Seminar on Recent Industry Trends	Make in India and Start up programs	20/0/2015	Sun College Shahjahanpur
9.	faculty development programme (FDP) on recent advancement and challenges in mobile	Research aspect in wireless Ad-hoc networks	11/06/2015-12/06/2015	ITS Ghaziabad

	computing			
10.	conference on advances in computing and communication engineering (ICACCE)	security thread in cloud computing	01/02/2015	IEEE and Tulas Institute Dehradun
11.	international conference of soft computing techniques Engineering and Technology (ICS CTET)	Ad-Hoc networking future perspective	07/07/2014-08/07/2014	IEEE and Graphic Era University,Bhimtal
12.	communication Era challenges and way-out	National seminar on new dimensions of communication opportunities and threats	08/05/2014	SSPG college Shahjahanpur in association with UP Chapter, ICA
13.	Research strand in Mobile Ad-hoc network	National seminar on communication network and computing(CNC)	23/01/2014-24/01/2014	ITM, Gwalior
14.	Emerging Trends and Research aspects on 3G wireless communication	routing challenges to advance wireless network	29/05/2013-11/06/2013	ITS Ghaziabad
15.	Emerging Trends and Research aspects on 3G wireless communication	Handful working of Bonn motion and NS2 simulators	29/05/2013-11/06/2013	ITS Ghaziabad and sponsored by AICTE
16.	Emerging research trend in Engineering and Technology	Research Aspects in MANETS and VANETS	17/03/2013-23/03/2013	IFTM Moradabad and Sponsored by TEQIP
17.	Workshop for Research Scholar	Routing Strategies in MANETS	20-11-2012	ABV-IIIT Gwalior
18.	Workshop for Research Scholars	Writing TCL analyzing race files applying AWK scripts and generation of different mobility models for MANETS	21-11-2012	ABV-IIIT Gwalior
19.	Faculty Development Program on Parallel and Distributed computing	Issues and challenges in Ad-hoc routing Challenges	04/08/2010-06/08/2010	ITS Ghaziabad
20.	Faculty Development Program on Trends and advances in wireless digital communication and next generation networks	Creation of Nodes, Links and Networks Using AODV protocols on NS-2	04/08/2010-06/08/2010	ITS Ghaziabad
21.	Faculty Development program on current trends in wireless communications	Working of Reactive Routing protocols in MANETS	06/05/2011-17/05/2011	KIET Ghaziabad
22.	Faculty Development program on current trends in wireless communications	Implementation of Ad-hoc Routing Scheme in NS-2	16/05/2011-17/05/2011	KIET Ghaziabad
23.	UGC refresher course in Computer science and IT (ID)	Research Aspects in MANETS and VANETS	24/12/2011	Jammu University, JAMMU

24.	National Conference of Ambient System and Technology	Ad-hoc Networking with Ambience	2011	BBDIT, Ghaziabad
25.	National Conference	Review of Zone Routing protocols	2010	KCMT, Bareilly
26.	National Assessment on Teaching Assessment and Evaluation	Teaching Assessment and Evaluation	2010	UP Self-finance B.Ed. Association and merchant association, KANPUR

See Attached Annexure for the detailed list of resource lectures/Expert/Examination

(f) Seminars/Conferences/Workshops Organized

S. No.	Seminar/conference/workshop	Role
1.	International Conference on Innovation and Intellectual Property Rights for Multidisciplinary Research (IIPRMR) 2023	Organizing Chair
2.	Springer International Conference MARC 2023	Organizing Chair
3.	Springer International Conference MARC 2022	Technical Chair
4.	IEEE Conference ICACCA 2017, 2018, 2019	General Chair
5.	IEEE International Conference IoT-SIU 2017, 2018, 2019	General Chair
6.	IEEE UPCON 2018	SAC/ Publicity Chair
7.	ICAREMIT- 2017,2018,2019	General Chair

See Attached Annexure for all conferences/workshops/Seminars

(g) Projects (With Title, Year, Grants, Funding Agency and Collaborations)

Year	Name of Project	Funding Agency	Amount	Duration	
				From	Till
2022	Smart Organic Agriculture (SOA): Modelling of Artificial Intelligence based IoT Framework for Crop Recommendation and Supply Chain Management using Blockchain	Council of Science and Technology – CST, Lucknow	9,92,000	2022	2025
2020	Optimized Energy Consumption Routing for IoT Based Large Wireless Sensor Networks	Joint Project TEQIP, MHRD	3,50,000	2019	2021
2021	IoT Enabled Early Fire Prevention and Detection in Disaster Management	R&D Scheme, UP Government	2,70,000	2021	2023
2019	An Emergency-Adaptive Routing Approach for	TEQIP MHRD	2,00,000	2019	2020

	Wireless Sensor Networks				
2019	Intelligent Image Filtering System in Mobile Devices based on Machine Learning	Joint Research and Development Project in collaboration with Industry M/s. Xkanda Technologies Private Ltd, Bangalore and BMS College Bangalore	1,05,000/-	2019	2020
2012	Performance Improvement of Secret Image Sharing Schemes	UGC	2,00,000	2012	2014

(h) Administrative Positions/Assignments Held

Post	Organization	Duration	
		From	To
PAC Committee Member	NSUT, Namibia	2020	2025
Head	Department of CSIT	2023	Till Date
Expert Member	Taylor's University, Malaysia	2018	Till date
Member, Area Advisory Board	Amity University	2020	Till Date
RAC Member	MITWPU Pune	2023	Till date
BOS Member	Sagar University MP	2022	Till date
PAC Member	IILM University, Gr. Noida, India	2023	Till date
Member, Executive Council/Committee	MJP Rohilkhand University Bareilly	2021	Till date
Member, Academic Council	MJP Rohilkhand University Bareilly	2019	Till date
Expert Member	MPSC	2023	Till date
Assistant Dean	Student Welfare	2019	Till date
Head	Training & Placement	2017	Till Date
Coordinator	NIRF/QS	2023	Till Date
Chief	Employment Bureau	2022	Till Date
Member Secretary	NAAC/IQAC, MJPRU	2021	Till Date
Nodal Officer	ABC/ ABACUS, UP Government	2021	Till Date
Nodal Officer	Abhyudaya Scheme of UP Government	2021	Till Date
Academic Nodal Officer	TEQIP II and III, MHRD	2016	2021
Convener	CSIT-BOS	--	--
Convener	Student Activities Committee	2018	2020

Convener	Web/NL Committee	2019	2021
Adhoc Committee Member	IEEE Uttar Pradesh Section	2022	Till date
Faculty Advisor	ACM Chapter	2018	Till date
Member, Core Committee	B.Ed. Entrance Examination	2022	Till date
Member, Admission Committee	MJP RU Bareilly	2022	Till date

(i) Seminar/Conference Presentations

RECENT INTERNATIONAL CONFERENCES

1. V. Maurya, V. Rishiwal, M. Yadav, D. S. Jat, U. Agarwal and V. R. Verma, "Blockchain-Powered Solution to Safeguard IoT Devices Against Attacks," 2023 International Conference on Emerging Trends in Networks and Computer Communications (ETNCC), Windhoek, Namibia, 2023, pp. 209-215, doi: 10.1109/ETNCC59188.2023.10284784.
2. Udit Agarwal, Vinay Rishiwal et. al., "Strengthening IoT Supply Chain Integrity: A Blockchain-based Approach to Identify Malicious Devices", Springer 12th International Conference on Soft Computing for Problem Solving (SocProS 2023) Moving Towards Society 5.0, IITR, India-2023
3. Omkar Singh, Vinay Rishiwal et. al., "QoS-Attentive Learning-based Routing for Scalable WSNs", DSMLAI '21: Proceedings of the International Conference on Data Science, Machine Learning and Artificial Intelligence-2021, Pages 305–310, <https://doi.org/10.1145/3484824.3484906>.
4. O. Singh, V. Rishiwal, L. Kumar and P. Yadav, "Secure Energy Aware Routing in Wireless Sensor Networks," 2019 4th International Conference on Internet of Things: Smart Innovation and Usages (IoT-SIU), Ghaziabad, India, 2019, pp. 1-6, doi: 10.1109/IoT-SIU.2019.8777705.
5. K. Nalinaksh, V. Rishiwal, M. Ganzha and M. Paprzycki, "An Internet of Things (IoT) solution framework for agriculture in India and other Third World countries," 2018 Fourth International Conference on Advances in Computing, Communication & Automation (ICACCA), Subang Jaya, Malaysia, 2018, pp. 1-6, doi: 10.1109/ICACCAF.2018.8776792.
6. G. Goel, R. Tiwari, V. Rishiwal and S. Upadhyay, "Data Preservation by hash algorithm for matrix multiplication over venomous cloud," 2018 Fifth International Conference on Parallel, Distributed and Grid Computing (PDGC), Solan, India, 2018, pp. 210-214, doi: 10.1109/PDGC.2018.8745851.
7. M. Jariso, B. Khan, S. Tanwar, S. Tyagi and V. Rishiwal, "Hybrid Energy System for Upgrading the Rural Environment," 2018 IEEE Globecom Workshops (GC Wkshps), Abu Dhabi, United Arab Emirates, 2018, pp. 1-6, doi: 10.1109/GLOCOMW.2018.8644409.
8. V. Rishiwal et al., "Base Station Oriented Multi Route Diversity Protocol for Wireless Sensor Networks," 2018 IEEE Globecom Workshops (GC Wkshps), Abu Dhabi, United Arab Emirates, 2018, pp. 1-6, doi: 10.1109/GLOCOMW.2018.8644227.
9. O. Singh, V. Rishiwal and M. Yadav, "Energy Efficient Routing Scheme for Enhancing Lifetime in Wireless Sensor Networks," 2018 3rd International Conference On Internet of Things: Smart Innovation and Usages (IoT-SIU), Bhimtal, India, 2018, pp. 1-7, doi: 10.1109/IoT-SIU.2018.8519918.
10. G. Kumar and V. Rishiwal, "Statistical Analysis of Tweeter Data Using Language Model With KLD," 2018 3rd International Conference On Internet of Things: Smart Innovation and Usages (IoT-SIU), Bhimtal, India, 2018, pp. 1-6, doi: 10.1109/IoT-SIU.2018.8519938.
11. K. Nalinaksh, L. Pathak and V. Rishiwal, "An Internet of Things solution for real- time identification of electricity theft and power outages caused by fault in distribution systems (converting existing electrical infrastructure of third world countries to Smart Grids)," 2018 3rd International Conference On Internet of Things: Smart Innovation and Usages (IoT-SIU), Bhimtal, India, 2018, pp. 1-8, doi: 10.1109/IoT-SIU.2018.8519935.
12. P. Gupta, V. Rishiwal, P. S. Kulkarni and Z. Iqbal, "QoS for Video Transmission in MANETs: ASurvey," 2018 3rd International Conference On Internet of Things: Smart Innovation and Usages (IoT-SIU), Bhimtal, India, 2018, pp. 1-7, doi: 10.1109/IoT-SIU.2018.8519851.
13. R. Saxena, V. Rishiwal and O. Singh, "Performance Evaluation of Routing Protocols in Wireless Sensor Networks," 2018 3rd International Conference On Internet of Things: Smart Innovation and Usages (IoT-SIU), Bhimtal, India, 2018, pp. 1-6, doi: 10.1109/IoT-SIU.2018.8519933.
14. K. P. Singh, V. Rishiwal and P. Kumar, "Classification of Data to Enhance Data Security in Cloud Computing," 2018 3rd International Conference On Internet of Things: Smart Innovation and Usages (IoT-SIU), Bhimtal, India, 2018, pp. 1-5, doi: 10.1109/IoT-SIU.2018.8519934.
15. O. Singh and V. Rishiwal, "On the scalability of routing protocols in WSN," 2017 3rd International

<p>Conference on Advances in Computing, Communication & Automation (ICACCA) (Fall), Dehradun, India, 2017, pp. 1-6, doi: 10.1109/ICACCAF.2017.8344691.</p> <p>16. P. Pradhan, V. Rishiwal and A. Agarwal, "A survey on effectiveness of tool based software project planning," 2016 2nd International Conference on Advances in Computing, Communication, & Automation (ICACCA) (Fall), Bareilly, India, 2016, pp. 1-8, doi: 10.1109/ICACCAF.2016.7749012.</p> <p>17. A. Sharma, A. Bansal and V. Rishiwal, "Performance enhancement in mmdsr through information management," 2016 2nd International Conference on Advances in Computing, Communication, & Automation (ICACCA) (Fall), Bareilly, India, 2016, pp. 1-6, doi: 10.1109/ICACCAF.2016.7749011.</p> <p>18. O. Singh, V. Rishiwal and M. Yadav, "Energy trends of routing protocols for H-WSN," 2016 2nd International Conference on Advances in Computing, Communication, & Automation (ICACCA) (Fall), Bareilly, India, 2016, pp. 1-4, doi: 10.1109/ICACCAF.2016.7748968.</p> <p>19. Vinay Rishiwal et al., "Analysis of Adhoc Routing Protocols: A Retrospective View," accepted in IEEE ICACCA 2016.</p> <p>20. Vinay Rishiwal, Sandeep Agarwal and Mano Yadav, "Performance of AODV Protocol for H-MANETs," accepted in IEEE ICACCA 2016.</p> <p>21. Anupama Sharma, Abhay Bansal, Vinay Rishiwal, "QoS Framework for Information Measure Management on Mobile Ad-hoc Network," Proc. IEEE International Conferences, confluence 2016, 2016.</p> <p>22. Mitul Yadav, Vinay Rishiwal, Omkar Singh, "Behavior of Adhoc Routing Protocols for H-MANETs," Proc. of SIST series Springer (Scopus Indexed), 2015.</p> <p>23. Vinay Rishiwal, Mitul Yadav and Shalu Maurya, "Energy behavior of Reactive protocols for H-MANETs," Proc. ICNGCCT, pp. 124-127, 2015 (received Best Paper Award)</p> <p>24. Sandeep Agarwal, Vinay Rishiwal and K. V. Arya, "Rendering the behavior of routing protocols for diverse mobility patterns in Energy Constrained Large Adhoc Networks," Proc. IEEE International Conference ICIIS 2014, pp. 1-6, 2014.</p> <p>25. Anupama Sharma, Abhay Bansal, Vinay Rishiwal, "Assessment of QoS based Multicast Routing Protocols in MANETs," Proc. Confluence 2014, pp. 421-426, 2014.</p> <p>26. K. V. Arya and Vinay Rishiwal, "An Efficient Halftone Visual Secret Sharing Scheme," Proc. IEEE International Conference ICIIS 2014, pp. 1-5, 2014.</p> <p>27. Ankita Saxena, Vinay Rishiwal and Amit Doegar, "Futuristic Vision for Efficient Image Secret Schemes," Proc. IEEE International Conference on Soft Computing Techniques for Engineering and Technology (ICSCTET-2014), pp. 90-91, 2014.</p> <p>28. Vinay Rishiwal, Sandeep Agarwal and Mano Yadav, "Recital of AODV Protocol for Energy based Heterogeneous Adhoc Network," Proc. IEEE International Conference on Soft Computing Techniques for Engineering and Technology (ICSCTET-2014), pp. 92-93, 2014.</p> <p>29. Sandeep Agarwal, Akanksha Singh and Vinay Rishiwal, "Patterning the Energy Behavior of Flat and Hierarchical Adhoc Routing Protocols, Proc. CONIAPS-14, IIIT Jabalpur, 2014.</p> <p>30. Sandeep Agarwal, Vinay Rishiwal and K. V. Arya, "Fallout of Different Routing Structure over Different Mobility Patterns for Large Adhoc Networks," IEEE Conference, Confluence 2013: The next generation Technology Summit, pp. 242-249, 2013.</p> <p>31. Preeti, Vinay Rishiwal and Mohit Khandelwal, "Mobility Patterns in Adhoc Networks," International conference on Mobile and Embedded Technology (MECON-2013), pp. 306-310, 2013.</p> <p>32. Ashutosh Gupta, Vinay Rishiwal and Suneeta gupta, "Efficient Storage of Massive Biological Sequences in Compact Form," Springer Communication in Computer and Information Science Series, vol 95, no. 1, pp 13-22, 2010.</p>			
<p>(j) Memberships of Academic/Professional Bodies</p> <ul style="list-style-type: none"> • Senior Member, IEEE (Membership Number: 92134039) • Senior Member ACM (Membership number: 2703150) • Senior Member IACSIT (Singapore), Membership Number: 80332293 • Senior Member, Universal association of Computer and Electronic Engineers (UACEE), SNM-1003560 • Senior Member, Machine Intelligence Research Lab, USA 			
<p><u>(k) Participation in Community Service / Exchange Programme / Consulting Activity</u></p>			
<p>Founder, Samajik Nyay Munch Founder/Coordinator, Uttistha Bharat Coordinator, Women in Engineering (WIE), An IEEE Unit Organized more than 75 programs including Health Care Camp, Awareness Programs, Women oriented workshops, plantation drives, blood donation camp, cleanliness drive etc. (See the attached annexure for details)</p>			
<p>(l) International Academic Exposure</p>			
Europe	Dubai	South Africa	Malaysia
Singapore	Croatia	Oman	Kathmandu

(m) Any Other Details

- H-Index 15, Cumulative Impact Factor 35)
- Worked as coordinator/Program Chair for many FDPs, conferences and Workshops of International/national repute.
- Reviewer of Many peer reviewed International Journals and conferences.
- Designed placement brochure, Developed T&P and Alumni Portal, Organized various Alumni Meet
- Mentoring Students for IEEE extrema and ACM ICPC
- Mentor for students in SIH 2019 and 2020

Patents (Total 24)

PATENTS- Granted

- Vinay Rishiwal et al., “Machine Learning Model for Predicting Severity Prognosis in Patients infected with COVID-19,” (Published/Granted on 07.10.2021)
- Vinay Rishiwal et al., “AMTH- Biomedical Waste Management: An IoT- Based System for Biomedical Waste Management Including Ayurveda Hospitals (Granted: 29/10/2020)
- Krishan Chandra Mishra, Vinay Rishiwal et al., “ISML – Stock Prices Predictor: Intelligent Stock Prices Predictor Using Machine Learning” (Published/Granted on 09/11/2020)
- Vinay Rishiwal et al., “Healthcare Data Exchange using Blockchain based Technology” (Filed on 19/04/2021, Published and granted on 26/05/2021)

PATENTS- Published

- Vinay Rishiwal et al., “A Crop Recommendation and Supply Chain Management System using IoT and Blockchain,” (Published on 02/06/2022)
- Inderpreet Kaur, Vinay Rishiwal et al., “MIMO Antenna for Smart Agriculture System,” (Published on 13/04/2022)
- Rashmi Chaudhary, Vinay Rishiwal et al., “School Girls and Women Safety Empowerment using IoT and Machine Learning Framework,” (Published on 26/02/2022)
- Sudeep Tanwar, Vinay Rishiwal and Sudhanshu Tyagi, “Big Data in Supply Chain Analysis using Block Chain,” (Published- 2021)
- Vinay Rishiwal et al., “IOE: Digital Education System: Impact of Open Access E-Resources in Digital Education System (Published 2021)
- 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)
- Vinay Rishiwal et al., “BUVT – Face Recognition BOT: Face Recognition BOT Their Unique Voice Using IOT-based Technology” (Published on 23/10/2020)
- Tanuja Bhatt, Vinay Rishiwal et al., “Education System Online Automation using Cloud Computing,” (Published on 03.05.2021)
- 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)
- 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)
- 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)
- Rakesh Kumar Yadav, Vinay Rishiwal et al., “IVH- Sanitizer System: Intelligent Vehicle Hand Sanitizer System using Pre-Instruction” (Published on 28/08/2020)
- Amit Kumar Verma, Vinay Rishiwal et al., “Sanitizer Composition of MADHUCA Longifolia” (Published on 28/08/2020)
- Naveen Rathee, Rakesh Kumar Yadav, Vinay Rishiwal et al., “S-ROBOT: Intelligent Room Surface/Floor-Cleaning ROBOT” (Published on 08/01/2021)



(Prof. Vinay Rishiwal)