Dr. Rakesh Kumar Jha

Name: Dr. Rakesh Kumar Jha **Designation**: Associate Professor **School:** Electronics and Communication Engineering **Email ID**: rakesh.jha@smvdu.ac.in, jharakesh.45@gmail.com Contact Number and Extn. 01991- 285524 and 2245, +919906088419 Qualification: B. E, M. Tech (NIT Jalandhar), Ph.D. (NIT Surat); (GATE) Ph.D. Thesis title: WiMAX Infrastructure modeling using OPNET Modeler with LBRRA Scheme Optimization, attack Modeling and Security Analysis with Proposed Solution

Address for correspondence:

Postal address: Associate Professor, SECE, SMVD University, Katra, Jammu182320 Email: rakesh.jha@smvdu.ac.in, jharakesh.45@gmail.com Telephone:+91-9906088419, 01991- 285524Ext 2245(office) Ext 6245(res) Facsimile: 01991-285694 **Field(s) of specialization:** Wireless Communication and Its security issues Analog and Digital Communication **Optical Fiber Communication**

Internet of Things (IoT)

Experience:

Teaching, Research and Administration: 10 Years, Industrial: More than 01 Years Total: 11 Years Associate Professor (Faculty) Jan '08 2018 - to present SMVD University, India Assistant Professor (Faculty) July '30 - to 7th January 2018 SMVD University, India 8th June '2008 - 24th July 2009 Capgemini India Pvt. Ltd. Associate Consultant Research Scholar 27th July 2009 - 27th July 2012 NIT, Surat Total Teaching and Industrial Experience = 11 Years 3 Months

Areas of Interest / Specialization:

Wireless Communication, Optical Fiber Communication, Analog and Digital Communication, Network Security issues, NBIoT, Device to Device Communication (D2D), Power Optimization in Wireless Communication, Ultra Dense Network(UDN).

Brief Bio-data:

Dr. Rakesh K. Jha is an Associate Professor in the Department of Electronics and Communication Engineering, Shri Mata Vaishno Devi University, Katra, Jammu and Kashmir, India. He is carrying out his research in wireless communication, power optimizations, wireless security issues, and optical Fiber communication. He is main author of most popular article in 5G with more then 1271 citations. He has done **B.Tech (Hon's)** in Electronics and Communication Engineering from R.G.T.U. Bhopal, India in 2006, and M.Tech from NIT Jalandhar (Hon's), India in 2008. Received his Ph.D. degree from NIT Surat, India in 2013.



He has completed his 10th exam from govt. High school and Class 12th From Science College; he was topper throughout his career.

He has published more than **60** Journal Papers out of which more than **50** SCI Journal papers including IEEE Transactions, IEEE Journal, Elsevier, Springer, Taylor & Francis, Hindwai etc. He has published **20** Interference including ITU-T, IEEE ANTS, INDICON, IEEE ANTS, and APAN. Dr. Jha's one concept related to the router of Wireless Communication has been accepted by ITU (International Telecommunication Union) in 2010. He has received young scientist author award by ITU in Dec 2010. He has received APAN fellowship in 2011, 2012-Srilanka, 2016 and in 2017-China, 2018-Singapore, 2018-New Zealand, 2019-South Korea and a student travel grant from COMSNET 2012. He is a Senior Member of IEEE, GISFI, and SIAM, International Association of Engineers (IAENG), ACCS (Advanced Computing and Communication Society), CSI etc. He has filed **07** Patents out of which **04** are published.

Dr Jha had 10 years of rich academic, Industrial and research experience in various institutes/University including NIT-Surat, Capgemini India Pvt. Ltd and SMVD University. He has also served as organizing member and TPC member for several national and international conferences. He has organized many workshops and has been invited as a resource person in many workshops organized by prestigious research institutes. He has guided **05** Ph.D. students (03 Completed and 02 Submitted their thesis) and **04** students are presently pursuing. He has guided more than **15** M. Tech and more than **50** B. Tech students for various projects. More than **2500** citations in his credit in wireless communication.

Other details of Dr Jha is available at https://sites.google.com/site/researchwithrakeshjha/home

Research Profile

S.	Title of the	Author	Year	Journal	Volume	PP.	Impact
No.	Paper						Factor
1	A Survey of 5G	Akhil Gupta and	2015	IEEE Access	Vol. 3	1206-	4.098
	Network:	Rakesh Kumar Jha				1232	(Most
	Architecture						Popular
	and Emerging						Paper)
	Technologies						
2	Power	Akhil Gupta and	2016	IEEE Access	Vol.4	1355-	4.098
	Optimization in	Rakesh Kumar Jha				1374	
	5G Networks:						
	A Step towards						
	GrEEn						
	Communication						

Research Publications in Journal (SCU Papers Only):

3	Sector-Based Radio Resource Allocation (SBRRA) Algorithm for Better Quality of Service and Experience in Device-to- Device (D2D) Communication	Rakesh Kumar Jha et.al	2017	IEEE Transactions on Vehicular Technology	Vol. 67	5750 - 5765	4.432
4	Device-to- Device Communication in Cellular Networks: A Survey	Pimmy Gandotra and Rakesh Kumar Jha	2016	Journal of Network and Computer Applications	Vol.71	99-117	5.273
5	A survey on device-to- device (D2D) communication: Architecture and security issues	Rakesh Kumar Jha et.al	2017	Journal of Network and Computer Applications	Vol. 78	9-29	5.273
6	Green Communication in Next Generation Cellular Networks: A Survey	Rakesh Kumar Jha et.al	2017	IEEE Access	Vol. 5	11727 - 11758	4.098
7	A Survey on Software Defined Networking: Architecture for Next Generation Network (1 st Rank in his category)	Sanjeev Singh and Rakesh Kumar Jha	2017	Journal of Network and Systems Management	Vol. 25 No. 2	321– 374	1.676
8	A survey on green communication and security challenges in 5G wireless communication networks	Pimmy Gandotra and Rakesh Kumar Jha	2017	Journal of Network and Computer Applications	Vol. 96	39-61	5.273
9	A survey on ultra-dense network and emerging technologies:	Rakesh Kumar Jha et.al	2017	Journal of Network and Computer Applications	Vol. 95	54-78	5.273

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	Security						
	challenges and						
	possible						
	solutions						
10	Implementation	Rakesh Kumar Jha	2017	AEU - International	Vol. 74	94-106	2.853
	of Intrusion	et.al		Journal of Electronics			
	Detection			and Communications			
	System using						
	Adaptive						
	Neuro-Fuzzy						
	Inference						
	System for 5G						
	wireless						
	communication						
11	network	Dalaada IZ	2016	Winstern Dev 1	V-1.06	0.42	0.020
11	Performance	Rakesh Kumar Jha	2016	Wireless Personal	Vol. 86	943-	0.929
	Analysis of	et.al		Communications volume		958	
	Proposed						
	OpenFlow-						
	Based Network						
	Architecture						
	Using Mininet						
12	A Survey on	Rakesh Kumar Jha	2018	IEEE Access	Vol. 7	16739-	4.098
	Energy	et.al				16776	
	Efficient						
	Narrowband						
	Internet of						
	Things						
	(NBIoT):						
	Architecture,						
	Application and						
	Challenges						
13	Power	Rakesh Kumar Jha	2016	Wireless Networks	Vol. 23	959-	2.405
	optimization	et.al				973	
	using massive						
	MIMO and						
	small cells						
	approach in						
	different						
	deployment						
	scenarios						
14	A	Rakesh Kumar Jha	2018	Journal of Network and	Vol.	29-57	5.273
	comprehensive	et.al		Computer Applications	103		
	survey on			parerpproutons			
	spectrum						
	sharing:						
	Architecture,						
	energy efficiency and						
15	security issues	Noorino Dadanan 1	2017	Optional and Organization	Vc1 40	A	1 5 47
15	Performance	Naazira Badar and	2017	Optical and Quantum	Vol. 49	Article	1.547
	comparison of	Rakesh Kumar Jha		Electronics		No.	
	various					192	
	modulation						

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Modeling in Ultradense Networks Using High- Speed Handover	21			2017				4.432
Ultradense Networks Using High- Speed Handover			et.al		venicular Technology	Issue 3	2192	
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Speed Handover								
Handover								
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		Management						

22	Design and comparative performance analysis of different chirping profiles of tanh apodized fiber Bragg grating and comparison with the dispersion compensation fiber for long- haul transmission system Power	Rakesh Kumar Jha et.al Akhil Gupta and	2017	Journal of Modern Optics	Vol. 64 Issue 6 Vol. 30	555- 566 e3279	1.657
23	optimization using optimal small cell arrangements in different deployment scenarios	Rakesh Kumar Jha	2017	Communication Systems	Issue 13	63279	1.278
24	A novel method for parallel indexing of real time geospatial big data generated by IoT devices	Suresh V.Limkar and Rakesh Kumar Jha	2019	Future Generation Computer Systems	Vol. 97	433- 452	5.768
25	Performance analysis of an $80 (8 \times 10)$ Gbps RZ- DPSK based WDM-FSO system under combined effects of various weather conditions and atmospheric turbulence induced fading employing Gamma– Gamma fading model	Rakesh Kumar Jha et.al	2018	Optical and Quantum Electronics	Vol. 50	Article No. 44	1.547
26	Prolonging User Battery Lifetime Using Green	Rakesh Kumar Jha et.al	2018	IEEE Communications Letters	Vol. 22 Issue 7	1490- 1493	3.457

4.682
1.278
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32	DDA: Dogion	Rakesh Kumar Jha	2019	IEEE Access	Vol. 7	52997-	4.098
32	RBA: Region Based	et.al	2019	IEEE Access	VOI. /	52997-	4.098
		et.al				55011	
	Algorithm for						
	secure						
	harvesting in						
	Ultra Dense						
22	Network	A 1 1 '1	2010			1.17	2.405
33	Power	Akhil	2018	Wireless Networks		1-15	2.405
	optimization	Gupta and Rakesh					
	with low	Kumar Jha					
	complexity						
	using scaled						
	beamforming						
	approach for a						
	massive MIMO						
	and small cell						
24	scenario	Dalaral V	2010		X7.1.1.7	A 1	1.072
34	Software	Rakesh Kumar	2019	Journal of the European	Vol. 15	Article	1.253
	Defined Optical	Jha and Burhan		Optical Society-Rapid	Issue 1	No. 16	
	Networks	Num Mina Llah					
	(SDON):						
	proposed						
	architecture and						
	comparative						
25	analysis	Carlina Cl	2010		V.1.0	10/07	4.422
35	Rank-Based	Garima Chopra, Rakesh Kumar Jha	2019	IEEE transactions on	Vol. 68	10687-	4.432
	Secrecy Rate			Vehicular Technology	Issue 11	10702	
	Improvement	and Sanjeev Jain					
	Using NOMA						
	for Ultra Dense						
36	Network Performance	Rakesh Kumar Jha	2019	Wireless			1.396
50			2019	Communications and			1.390
	Analysis of	et.al					
	Grouped			Mobile Computing			
	Multilevel						
	Space-Time						
	Trellis Coding						
	Technique						
1	Using						
1	Cognitive Radio in						
1	Different						
	Deployment						
	Models						
37	E2ARC:	Rakesh Kumar Jha	2018	Transactions on	Vol 29	e3525	1.258
51	E2ARC: Energy-	et.al	2018	Emerging	Issue 11	63323	1.230
	efficient	ci.ai		Telecommunications	1550C 11		
	adaptive			Technologies			
	resource block			rechnologies			
	allocation with						
	low complexity						
	in device-to-						
1	device						
1	communication						
	communication						

38	Power and energy optimization with reduced complexity in different deployment scenarios of massive MIMO network RFID based	Rakesh Kumar Jha et.al Rakesh Kumar Jha	2019	International Journal of Communication Systems Hardware X	Vol. 32 Issue 6 Vol. 4	e3907 e00043	1.278
57	food rationing system	et.al	2010		V 01. 4	00045	1.372
40	Energy and spectral efficiency optimization using probabilistic based spectrum slicing (PBSS) in different zones of 5G wireless communication network	Rakesh Kumar Jha et.al	2019	Telecommunication Systems	Vol. 73	59-73	1.707
41	Zonal-Based GrEEn Algorithm for Augmenting the Battery Life in Spectrum Shared Networks via D2D Communication	Pimmy Gandotra and Rakesh Kumar Jha	2018	IEEE Transactions on Vehicular Technology	Vol. 68 Issue 1	405- 419	4.432
42	Dispersed beamforming approach for secure communication in UDN	Rakesh Kumar Jha et.al	2019	Wireless Networks		1-18	2.405
43	SDOWN: A novel algorithm for better Quality of Service and Experience in Software Defined Optical Wireless Network	Sanjeev Singh and R.K.Jha	2019	Optik	Vol. 176	662- 684	1.914

44	TWDM-PON- AN optical backhaul solution for hybrid optical wireless networks	Fayiqa Naqshbandi and Rakesh Kumar Jha	2016	Journal of Modern Optics	Vol. 63 Issue 19	1899- 1916	1.657
45	Computing over encrypted spatial data generated by IoT	Suresh V. Limkar and Rakesh Kumar Jha	2019	Telecommunication Systems	vol. 70	193– 229	1.707
46	Protocol design and resource allocation for power optimization using spectrum sharing for 5G networks	Rakesh Kumar Jha et.al	2019	Telecommunication Systems	Vol. 72	95-113	1.707
47	RBA: Detection and Protection Analysis Using Region-Based Algorithm in Ultra-Dense Networks	Rakesh Kumar Jha et.al	2019	IEEE Access	Vol. 7	52997- 53011	4.098
48.	A survey on security issues of 5G NR: Perspective of artificial dust and artificial rain	Rakesh Kumar Jha et.al	2020	Journal of Network and Computer Applications			5.23
49.	ANGUISH: Security Attack In NB-IoT Using Game theory and Hardware Analysis	Rakesh Kumar Jha et.al	2020	Transactions on Emerging Telecommunications Technologies			1.258
50.	NB-IoT Security: A Survey	Rakesh Kumar Jha et.al	2020	Wireless Personal Communications			0.929

Books Publications:

S. No.	Year	Publication
1	2011	Security Issues in AD-HOC and Infrastructure (WLAN) Networks-Wireless
		communication and Its Security Issues with OPNET Modeler
2.	2015	A Journey starts from basic understanding of NS2 to NS3
3.	2015	Hybrid Optical Networks

<u>Conference Publications:</u> More then **25 Conference Paper (Top 8)**

SI. No.	Details of Conference Proceedings(since last promotion)	
1.	Author (s): Rakesh K. Jha, Dr. Upena D Dalal	
	Role (First Author/Main Supervisor/ Co-author):	
	Title of the paper: Resource Allocation in Mobile WiMAX Network: An Optimal Approach	
	Name of Conference and Dates: ISBN/ISSN No.: APAN Conference, Srilanka	
2.	Author (s): Rakesh K. Jha, Dr. Upena D Dalal	
	Role (First Author/Main Supervisor/ Co-author):	
	Title of the paper: Location based radio resource allocation (LBRRA) for WiMAX networks	
	Name of Conference and Dates: ISBN/ISSN No.: IEEE ANTS	
	Year of Publication: 2011	
3.	Author (s): Rakesh K. Jha, Dr. Upena D Dalal	
	Role (First Author/Main Supervisor/ Co-author):	
	Title of the paper: Performance comparison of Intelligent Jamming in RF (Physical) Layer	
	with WLAN Ethernet Router and WLAN Ethernet Bridge Kaleidoscope: Beyond the Internet?-	
	Innovations for Future Networks and Services	
	Name of Conference and Dates: ISBN/ISSN No.: ITU-T	
	Year of Publication: 2010	
4.	Author (s): Rakesh K. Jha, Dr. Upena D Dalal	
	Role (First Author/Main Supervisor/ Co-author):	
	Title of the paper: Location based radio resource allocation (LBRRA) in WiMAX and WiMAX-	
	WLAN interface network	
	Name of Conference and Dates: ISBN/ISSN No.: COMSNET	
	Year of Publication: 2012	
5.	Author (s): Rakesh K. Jha, Varun Mishra	
	Role (First Author/Main Supervisor/ Co-author):	
	Title of the paper: Power optimization of wireless network	
	Name of Conference and Dates: ISBN/ISSN No.: INDICON	
	Year of Publication: 2013	
6.	Author (s): Rakesh K. Jha, Anubhav Tiwari	
	Role (First Author/Main Supervisor/ Co-author):	
	Title of the paper: Zigbee Based Home Automation and Agricultural Monitoring System A	
	mesh networking approach for autonomous and manual system control	
	Name of Conference and Dates: ISBN/ISSN No.: APAN Conference, China	
	Year of Publication: 2017	

Author (s): Rakesh K. Jha, Pimmy Gandotra	
Role (First Author/Main Supervisor/ Co-author):	
Title of the paper: Next generation cellular networks and green communication	
Name of Conference and Dates: ISBN/ISSN No.: COMSNET	
Year of Publication: 2018	
Author (s): Rakesh K. Jha, Garima Chopra	
Role (First Author/Main Supervisor/ Co-author):	
Title of the paper: Security issues in ultra-dense network for 5G scenario	
Name of Conference and Dates: ISBN/ISSN No.: COMSNET, Year of Publication: 2018	
	Role (First Author/Main Supervisor/ Co-author): Title of the paper: Next generation cellular networks and green communication Name of Conference and Dates: ISBN/ISSN No.: COMSNET Year of Publication: 2018 Author (s): Rakesh K. Jha, Garima Chopra Role (First Author/Main Supervisor/ Co-author): Title of the paper: Security issues in ultra-dense network for 5G scenario

Research Supervised:

S. No.	Year	Role	Research Topic	Status
1. Dr Akhil Gupta	2013-2017	Guide	Power Optimization	PhD. Completed
			and Security Analysis	(Full Time)
			with Proposed	
			Solution of 5G	
			Wireless	
			Communication	
			Networks	
Mr. Sanjeev Singh	2014 -2017	Guide	SDN-Optical Interface	Ph.D. Completed
			(Comprehensive Area	
			of Research)	
Mr. Suresh Limkar	2014-2017	Guide	Internet of Things(IoT)	Ph.D. Completed
			(Comprehensive Area	
			of Research)	
Miss Pimmy	2016-2017	Guide	Device to Device	Ph.D. Submitted
Gandotra			Communication	
Miss Garima Chopra	2016-2017	Co-Guide	Ultra-Dense Network	Ph.D. Submitted
			(UDN)	
Miss Haneet Kour	2015-2017	Guide	Power Optimization	M.Tech (Full
			Using Spectrum	Time)
			Sharing For 5G	
			Networks	
Miss Pimmy	2014-2016	Guide	Resource Allocation in	M.Tech (Full
Gandotra			Device to Device	Time)
			Communication for	
			5G Networks	
Miss Akshita Abrol	2014-2016	Guide	Power Optimization of	M.Tech (Full
			5G Network	Time)
Miss Reeta Devi	2014-2016	Guide	Physical Layer Security	M.Tech (Full
			in Next Generation	Time)
			Networks	
Miss Fayiqa	2014-2016	Guide	Time and Wavelength	M.Tech (Full
Naqshbandi			Division Multiplexed	Time)
			Passive	
			Optical Network	

	[
			(TWDM-PON) for Next	
			Generation Optical	
			Access	
Mr. Asif Bashir Dar	2014-2016	Guide	Design and	M.Tech (Full
			Comparative	Time)
			Performance Analysis	
			of Different Chirping	
			Profiles of Tanh	
			Apodized Fiber Bragg	
			Grating and	
			Comparison with the	
			Dispersion	
			Compensation Fiber	
			for Long-haul	
			Transmission System	
Miss Naazira Bazar	2014-2016	Guide	Design and	M.Tech (Full
	20112010	Culde	Performance Analysis	Time)
			of a Wavelength	Timey
			Division Multiplexing	
			Based Free Space	
			Optical	
			Communication	
Mr. Abid Bashir	2014-2016	Guide	System	
IVII. ADIU DASIIII	2014-2010	Guide	Design and Simulative	M.Tech (Full
			Analysis of an Optical	Time)
			Intrusion Detection &	
			Prevention System	
			(OIDPS)	
Miss Burhan Liah	2014-2016	Guide	Software Defined	M.Tech (Full
			Networking in	Time)
			Optical Networks	
Mr. Wasim Array	2014-2016	Guide	Enhanced	M.Tech (Full
			Performance	Time)
			Assessment for Hybrid	
			Optical and Wireless	
			Access Network	
Miss Sonam Bhagat	2014-2016	Guide	Performance	M.Tech (Full
			Evaluation of 128	Time)
			Channels at 10 Gbps	
			Data-Rate Using	
			Hybrid (Raman-EDFA)	
			Optical Amplifier at	
			Different	
			Transmission	
			Distances	
	1	1	Distances	

Mr. Umer Ashraf	2014-2016	Guide	To Enhance the Channel Capacity of Optical Fiber Using Hybrid Combination of WDM and OTDM	M.Tech (Full Time)
Miss Ambica Raina	2014-2016	Guide	Performance Analysis of Open Flow Base Network	M.Tech (Full Time)

Patents: List of patents Filed

S.No	Patent/ Copyright	Applicant	Year of Application	Published/Granted	
1.	ZONAL BASED GREEN ALGORITHM FOR ENHANCING BATTERY LIFETIME OF USER TERMINALS	Rakesh Jha, Pimmy Gandotra, Sanjeev Jain	2018	Yes	No
2.	SECTOR BASED ARCHITECTURE FOR DEVICE-TO-DEVICE (D2D) COMMUNICATION	Rakesh Jha, Pimmi Gandotra, Sanjeev Jain	2017	Yes	No
3.	SYSTEM AND METHOD FOR REDUCING INTERFERENCE IN A COMMUNICATION NETWORK	Rakesh Jha, Akhil Gupta	2017	Yes	No
4.	POWER OPTIMIZATION WITH LOW COMPLEXITY USING SCALED BEAMFORMING APPROACH	Rakesh Jha, Akhil Gupta	2017	Yes	No
5.	Region Based Algorithm (RBA) for Secure Harvesting in Ultra Dense Network	Rakesh Jha, Garima Chopra and Sanjeev Jain	2018		No

Award and Honours:

Name of the body	Year of award	Nature of the award
ITU-T (International Telecommunication Union)	2010	Young Author Reorganization(ITU-T)
APAN Fellowship (By Srilanka Govt)	2012	Given to young researcher
APAN Fellowship (By India Govt)	2010	Given to young researcher
COMSNET (IIT Group)	2011	Student Grants
Bharat Shiksha Ratan Award	2015	Nominated by G.S.H.E. G
APAN Fellowship -China	2017	Given to young researcher
APAN Fellowship -Singapore	2018	Given to young researcher
APAN Fellowship -Auckland	2018	Given to young researcher
APAN Fellowship -Korea	2019	Given to young researcher
IEEE Senior Member	2015	IEEE Society

Research Citations:

4/16/2020



Rakesh Kumar Jha - Google Scholar Citations

Rakesh Kumar Jha		All	Since 2015
SVNIT,SMVD University Jammu Wireless Security Issues Power Optimization NBIoT 5G AI	Citations h-index i10-index	2591 21 30	2389 18 27