Name: Misbah Shafi

School: Electronics and Communication Engineering

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Qualification: B. Tech, M. Tech, Ph.D.



Ph.D. Thesis Title: SECURITY ISSUES IN 5G WIRELESS COMMUNICATION NETWORK

Date of Ph.D. thesis submission: 29 October 2021

Date of Ph.D. viva-voce: 21 June 2022

Current Working Status: Assistant Professor in the Department of Electronics and Communication

Engineering, Central University of Jammu

Address for correspondence:

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Field(s) of Specialization:

Network security techniques in wireless communication, artificial intelligence, attack modelling, intrusion detection systems, and security enhancement techniques, security in satellite communication

Areas of Interest:

Network security, wireless communication, artificial intelligence, machine learning, deep learning, intelligent algorithm synthesis

Brief Bio-data:

Misbah Shafi is currently working as an Assistant Professor in the Department of Electronics and Communication Engineering at Central University of Jammu. She worked as a Research Associate at SDCSS (ISRO), Central University of Jammu from August 2022 to July 2023. She was a Research Scholar in the Department of Electronics and Communication Engineering, Shri Mata Vaishno Devi University, Katra, Jammu and Kashmir, India. The thesis of the Ph.D. has been submitted on 29th of October 2021. She has published 06 Journal Papers including IEEE Transactions, IEEE Journal and Elsevier. She has carried out his research in the field of network security involving machine learning, adaptive algorithm synthesis mechanisms, security based intrusion detection and security enhancement techniques. She has completed her M.Tech and B.Tech in Electronics and Communication Engineering in 2018 and 2016. She has completed his 10th standard from New Public High School in 2009 and Class 12th from Hista Higher Secondary Anantnag in 2012.

Research Profile

Research Publications in Journal (SCI):

S. No.	Title of the Paper	Author(s)	Year	Journal	Volume	PP.	Impact Factor
1	A survey on security issues of 5G NR: Perspective of Artificial Dust and Artificial Rain	Misbah Shafi, Rakesh Kumar Jha, and Manish Sabraj	2020	Journal of Network and Computer Applications	Vol. 160	102597	8.7
2	AR-Based Half- Duplex Attack in Beyond 5G Networks	Misbah Shafi and Rakesh Kumar Jha	2020	IEEE Systems Journal	Vol. 15	1693- 1704	4.4
3	Artificial Dust Based Attack Modelling: A Threat to the Security of Next Generation WCN	Misbah Shafi and Rakesh Kumar Jha	2022	IEEE Transactions on Network Science and Engineering	Vol. 9	4001- 4016	6.6
4	Behavioral Model For Live Detection of Apps Based Attack	Misbah Shafi, Rakesh Kumar Jha, Sanjeev Jain	2022	IEEE Transactions on Computational Social Systems	Vol. 10	934-946	5.0
5	LGTBIDS: Layer- wise Graph Theory Based Intrusion Detection System in Beyond 5G Networks	Misbah Shafi and Rakesh Kumar Jha	2022	IEEE Transactions on Network Service and Management	Vol. 20	658-671	5.3
6	Intelligent Trust Ranking Security Preserving Model for B5G/6G	Misbah Shafi, Rakesh Kumar Jha, Sanjeev Jain	2023	IEEE Transactions on Network Service and Management	Early access	Early access	8.28

Conference Publications:

S.	Title of the	Author(s)	Year	Name of the conference
No.	Paper			
1	Half-Duplex	Misbah Shafi,	2020	International Conference on COMmunication Systems &
	Attack: An	and Rakesh		NETworkS (COMSNETS)-IEEE
	Effectual Attack	Kumar Jha		
	Modelling in			
	D2D			
	Communication			
2	Security Issues in	Misbah Shafi,	2020	6 th International Conference on Recent Trends and
	D2D	Rakesh Kumar		Advancements in Engineering and Technology
	Communication	Jha, and		
		Manish Sabraj		

Patents:

S.No.	Patent	Applicant(s)	Year of application	Published
1	Smart Digital Pen	Rakesh Kumar Jha, Vinod Kumar, Haneet Kour, Sakhshi Popli, Misbah Shafi , and Apurav Mahajan	2020	Yes
2	Half-Duplex Attack	Rakesh Kumar Jha, and Misbah Shafi ,	2022	Filed
3	Artificial Intelligence based Trust Ranking Security Enhancement Scheme using RM Dataset	Rakesh Kumar Jha, Misbah Shafi , and Sanjeev Jain	2023	Filed

Copyright(s):

S.No.	Patent	Applicant(s)	Year of acceptance	Published
1	RM Dataset	Rakesh Kumar Jha, Misbah Shafi	2023	Yes

Award and Honors:

S.No.	Name of the body	Year of award	Nature of the award
1	COMSNET	2020	Travel grant
2	TEQIP	2018 (August)- 2021(March)	Assistantship

Certifications:

S.No.	Title of the course	Performance	Year	Organization
1	Evolution of air interface towards 5G	Gold	2019	NPTEL
2	Introduction to internet of things	Elite	2019	NPTEL

Conferences/Workshops/Seminars organized

 Member, Organizing Committee, "Proceedings of the 5th International Conference on Recent Trends Advancement in Engineering and Technology (ICRTAET)," organized by Shri Mata Vaishno Devi University, Katra, J&K, from 25th -26th October 2018.

- Member, Organizing Committee, "Proceedings of the 6th International Conference on Recent Trends & Advancement in Engineering and Technology (ICRTAET)," organized by Shri Mata Vaishno Devi University, Katra, J&K, from 17th -18th January 2018.
- Organizing Member, MHRD sponsored one day national training programme on "ICT enabled Hybrid Learning (MOOCs)" held at SMVDU on 19th January 2019.

Conferences/Workshops/Seminars attended

- Two day workshop on "Dell EMC-Nvidia training on Artificial Intelligence/Deep Learning," organized by Aman Technologies at SMVDU, Katra, J&K, 25th -26th July 2019.
- One day hands on session on unity and cohesion in Academic Writing, during Research Day, organized by School of Language and Literature, Faculty of Humanities and Science at SMVDU, on 25th September 2019.
- 54 hours Techstars Startup Weekend Event, including the learning of ides to product, business model canvas and validation, organized by SMVDU-TBIC on 20th -22nd September, 2019.
- Two day workshop on "Ethical Hacking and Cyber Security," organized School of Computer Science and Engineering, SMVDU, Katra, J&K, 26th September,2019.