Hushmat Kar

ASSISTANT PROFESSOR

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SUMMARY

To succeed in an environment of growth and excellence and earn a job which provides me job satisfaction and self-development and help me achieve personal as well as organisational goals.

EDUCATION

PhD
National Institute of Technology, Srinagar INDIA Aug 2015 - Nov 2021
Software Defined Network based multilayer architecture for Edge based Internet Of Things.

Master of Technology
National Institute of Technology, Srinagar INDIA Jul 2012 - Jul 2014
Communication and Information Technology

Bachelor of Engineering
University of Jammu, INDIA Aug 2007 - Aug 2011
Information Technology

TECHNICAL SKILLS

- LANGUGAGES KNOWN: C, JAVA, PYTHON
- TOOLS: Network simulator II, visual studio, Net beans, MiniNet, Matlab, Solarwinds Network.
- WEB TECHNOLOGY: HTML, DHTML, JavaScript, CSS.
- DATABASE: Oracle, MYSQL and SQL server.

EXPERIENCE

Assistant Professor (Present)
Department of Computer Science Engineering, Islamic University of Science and Technology, J&K INDIA.

Assistant professor (1 year)
Department of Computer Sciences, University of Kashmir, J&K INDIA

Guest Faculty (1 Year)
Department of Information Technology, National Institute of Technology Srinagar INDIA

Assistant Professor (1 Year)
National Institute of Technology, Srinagar INDIA

ACADEMIC PROJECTS

Software Defined Network based multilayer architecture for IoT enabled Edge Computing

- Investigation of the round trip time and control stratigies adapted at the Edge layer of IoT Architecture. The proposed framework offers a way for IoT Devices to get their request handled at any service layer in an efficient mechanism.

Improving WLAN Security using management frame encryption

- Proposes a framework that mitigates effect of Dos attacks. The proposed scheme effectively gives protection to the disassociation and the deauthentication frames by encrypting them with prehard key thus restricting the adversery to send the frames on behalf of legitimate users.

Development of Webserver in ANSI C

- The main objective of the project was to develop a web server coded in C language which makes the functioning of the web server faster than other webservers coded in other languages.

RESEARCH PUBLICATIONS

Multilayered Software Defined Networking Architecture for the Internet of Things
Hushmat Amin Kar and Ghulam Mohammad Rather(2020) - International Journal of Computing and Digital Systems, 9(4), 735-745

A survey on Edge-Based Internet Of Things
Hushmat Amin Kar and Ghulam Mohammad Rather - International Journal of Computer Networks and Application (IJCNA) volume 6, Issue 6, November-December (2019).

An Analytics and Simulation Study of Round-Trip Transmission Time of an Edge based Internet of Things Network
Hushmat Amin Kar and Ghulam Mohammad Rather - 2nd International Conference on Innovative Mechanism for Industry Application (ICIMIA) (pp. 538-543) (2020, March).

Internet of Nano-things: An energy efficient routing protocol for healthcare applications
Hushmat Amin Kar and G M Rather - Proceeding of 5th International Conference on Nanotechnology for Better Living 2019, ISBN: 978-81-939516-0-6

Analysis of multi-diseases using big data for improvement in healthcare
A. Adil, **Hushmat Amin Kar**, R. Jahangir and S.A.Sofi - 2015 IEEE UP Section Conference on Electrical Computer and Electronics (UPCON), Allahabad, India, 2015, pp. 1-6, doi: 10.1109/UPCON.2015.7456696

A Secure Lightweight Distributed Authentication Framework for MANets
Alwi M Bamhdi and **Hushmat Amin Kar** (2021) - International Journal of Computer Science and Network Security.

Design and Analysis of Graphene based TeraHertz band Antenna for Nano Network Applications
Umar Farooq, **Hushmat Amin Kar** and Ghulam Mohammad Rather - Proceeding of 5th International Conference on Nanotechnology for Better Living 2019, ISBN: 978-81-939516-0-6

Hybrid Feature Classification Approach for Malicious JavaScript Attack Detection using Deep Learning
Khan N. A., Alzaharani, M. Y., & **Hushmat Amin Kar** (2020) - International Journal of Computer Science and Information Security (IJCSIS), 18(5).

Employing Public key Infrastructure to Encapsulate Messages During Transport Layer Security Handshake Procedure
Khan N. A., Khan A. S., **Hushmat Amin Kar**, et.al - Applied Informatics International Conference (Aiic2022), University Putra Malaysia, Serdang, Malaysia, May 18-19, 2022.

IoT Architectural Design & Deployment for Real-Time Monitoring of Pollution in Rivers
Hushmat Amin Kar, G. M. Rather, & Sofi Shabir (2016) - Environmental Pollution: Join the Race to Make the world a Better Place", 2016.

Establishing Secure Network Virtualization in 5G Radio Access Network
Khan, N. A., Khan, A. S. & **Hushmat Amin Kar**, et.al - Mobile Information System Hindawi.

Book Chapter - A Miniaturised Multilayer Tri-band Off-body Antenna for Heterogeneous Applications in Internet of Medical Things

Umar Farooq, **Hushmat Amin** and Shoaib Banday - "Extended Reality for Healthcare Systems: Recent Advances in Contemporary Research" published by Elsevier.

Performance Analysis of Distributed Edge Computing for Enterprise Networks

Hushmat Amin Kar and Ghulam Mohammad Rather - Wireless Networks Springer

WORKSHOPS AND CERTIFICATIONS

Two weeks training on Flow Code and associated hardware.

2015-10-26

Technics Infosolutions, Delhi INDIA

Attended one week Course on Building blocks for 5G Communication: IoT, SDR and Sensor Networks

2017-03-30

E&ICT Academy at Indian Institute Of Technology, Roorkee INDIA

Certified Designer for the framework of IoT products

2017-08-23

Iot University, Boulevard Boston

Participated in two weeks workshop on Smart Sensors and IoT

2016-03-21

Jamia Millia Islamia University, Delhi INDIA

Attended one week Workshop on Open Source Technologies

2016-01-04

Nation Institute of Technical Teachers Training & Research, Chandigarh INDIA

Ten days training on Big Data Analytics

2017-03-10

National Institute Of Technology, Srinagar INDIA

One week Course on Machine Learning and its applications

2021-12-27

National Institute of Technical teachers training & Research, Kolkata INDIA

Week long Training on IBM Bluemix

IBM + NIT, Srinagar INDIA

Participated in Digital India week 2015

2015-01-01

Department of Electronics and Information Technology, Government Of INDIA

Faculty Development Program on Data Sciences

2020-08-24

AI India Council for Technical Education, Government of INDIA

Faculty Development Program on Emerging Technological Information in Computer Science and engineering

2022-02-21

Department of Computer Sciences, AIMT, Lukhnow INDIA

Attended two weeks workshop on Mathematical Foundation of Computer Science

2022-01-10

National Institute of Technical teachers training & Research, Kolkata INDIA

Week Long Course on Recent advancements in Social IoT and Industrial IoT

2022-02-14
National Institute of Technology, Pondichery INDIA

Workshop on Cluster based Computing
2016-08-20
National Institute of Technical teachers training & Research, Chandigarh INDIA

OTHER ASSIGNMENT

Program Committee member of "8th International Conference on Signal, Image Processing and Embedded Systems (SIGEM 2022) to be held at Zurich, Switzerland.

Invigilator to SciLab Training Offered by Spoken tutorial Project, Indian Institute Of Technology Bombay, funded by Ministry of Human Resource and Development, Govt. of India.

Imparted six weeks training course on "Internet of Things" to Graduate Students, National Institute Of Technology , Srinagar INDIA.

Manager of Code Master team during the technical event, Techvaganza-15 at National Institute of Technology, Srinagar INDIA.

FELLOWSHIPS / RECOGNITION

Senior Research Fellowship (SRF)
Ministry of Human Resource Development (MHRD), Govt. of India from August 2017 to August 2020.

Junior Research Fellowship (JRF)
Ministry of Human Resource Development, Govt. of India from August 2015 to August 2017.

Postgraduation Fellowship
Ministry of Human Resource Development, Govt. of India from August 2012 to August 2014.

Graduate Aptitude Test in Engineering (GATE 2012)
Qualified GATE in Computer science and Information Technology, percentile of 98.97.

Best Paper Award - Nanotechnology for Better Living 2019
5th International Conference on Nanotechnology for Better Living 2019, INDIA

PROFESSIONAL ASSOCIATIONS

- Member, Institute of Engineers India, Membership # AM184894-4

- Member, Institution of Electrical and Electronics Engineers (IEEE), Membership # 93573588

- Member, Institute of Electronics and Telecommunication Engineers. (IETE), Membership # 235736

REFERRALS

- Dr. G M Rather, Professor&Head, Department Of ECE, National Institute of Technology, Srinagar India - 190006 e-mail: gmrather@nitsri.ac.in Cell: +91-9419076741
- Dr. Shabir Ahmad Sofi, Head, Department of Information Technology, National Institute of Technology, Srinagar India - 190006 Email: shabir@nitsri.net Cell: +919419009971
- Dr. Ghulam Rasool Begh, Associate Professor, Department of ECE, National Institute of Technology, Srinagar India - 190006 Email: grbegh136@yahoo.com Cell: +919419010409