

# Muhammad Saleem Khan, PhD (Total IF=11)

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## EDUCATION

### Ph.D Computer Science

COMSATS Institute of Information Technology, Islamabad, Pakistan.

- Thesis Topic: "Trust Based Security Framework for Secure Routing in Mobile Ad hoc Networks"
- Advisor: Dr. Majid Iqbal Khan

### MS Computer Science, 2008-2010

Mohammad Ali Jinnah University, Islamabad, Pakistan.

### Master in Information Technology, 2004-2006

Kohat University of Science and Technology, Kohat, Pakistan.

### Bachelor (B.Sc), 2001-2003

Gomal University, D.I. Khan, Pakistan.

## WORK EXPERIENCE

1. **Assistant Professor (January, 2018 - present):** currently working as an Assistant Professor in the Department of Computer Science, COMSATS University Islamabad, Attock Campus, Pakistan.
2. **Lecturer (September, 2016 - December, 2017):** worked as a lecturer in the Department of Computer Science, COMSATS University Islamabad, Attock Campus, Pakistan.
3. **Research Associate (March, 2013 - December, 2014):** worked as a Research Associate in a project titled 'Design and Development of Hybrid IPv4 & IPv6 Network for QoS Enabled Video Streaming Multicast Application' funded by National ICT R&D Fund, Capital University of Science and Technology, Islamabad, Pakistan.

## RESEARCH INTERESTS

- Advanced Natural Language Processing (NLP)
- Large Language Model Architectures
- Transfer Learning in Machine Learning
- Deep Learning for Text and Language
- Internet of Things (IoT)
- Trust, security, and privacy in distributed systems
- AI for Earth Systems, Climate Modeling, Remote Sensing, and Environmental Monitoring

## PUBLICATIONS

### JOURNAL PUBLICATIONS

1. **Muhammad Saleem Khan**, Majid I.Khan, Saif-Ur-Rehman Malik, Osman Khalid, Mukhtar Azim, and Nadeem Javaid, "MATF: A Multi-attribute Trust Framework for MANETs", EURASIP Journal on Wireless Communications and Networking, 2016, (IF 1.529).

2. **Muhammad Saleem Khan**, Saira Waris, Ihsan Ali, Majid I. Khan, M. H. Anisi, "Mitigation of Packet Loss using Data Rate Adaptation Scheme in MANETs", in Mobile Networks and Applications Journal, 2016, (IF 3.259).
3. **Muhammad Saleem Khan**, Daniele Midi, Saif-Ur-Rehman Malik, Majid.I.Khan, Nadeem Javaid, and Elisa Bertino, "Isolating Misbehaving Nodes in MANETs with an Adaptive Trust Threshold Strategy", in Mobile Networks and Applications Journal, 2016, (IF 3.259 ).
4. **Muhammad Saleem Khan**, Daniele Midi, Majid.I.Khan, and Elisa Bertino, "Fine-grained Analysis of Packet Loss in MANETs", in IEEE Access Journal, 2017, (IF 3.24).
5. Inam Ul Haq, Qaisar Javaid, Zahid Ullah, Zafar Zaheer, Mohsin Raza, Muhammad Khalid, Ghufran Ahmed, **Muhammad Saleem Khan**, "E2-MACH: Energy Efficient Multi-Attribute Based Clustering Scheme for Energy Harvesting Wireless Sensor Networks", in International Journal of Distributed Sensor Networks, 2020,(IF 1.51).
6. Muhammad Shehrayar Khan, Atif Rizwan, Muhammad Shahzad Faisal, Tahir Ahmad, **Muhammad Saleem Khan**, Ghada Atteia, "Identification of review helpfulness using novel textual and language-context features", in Journal of Mathematics, 2022 (IF 2.592).

## CONFERENCE PROCEEDINGS

1. **Muhammad Saleem Khan**, Mohammad Hossein Anisi, Saira Waris, Ihsan Ali, and Majid.I.Khan, "Data Rate Adaptation Strategy to Avoid Packet Loss in MANETs", in The 1st EAI International Conference on Future Intelligent Vehicular Technologies, Porto, Portugal September 15-16, 2016.
2. **Muhammad Saleem Khan**, Idrees Ahmed, Abid Khan, and Majid.I.Khan, "Adaptive Reputation Weight Assignments Scheme for MANETs", in 15th IEEE International Conference on Trust, Security and Privacy in Computing and Communications (IEEE TrustCom-16), Tianjin, China, August 23-26, 2016.
3. Idrees Ahmed, Abid Khan, **Muhammad Saleem Khan**, and Mansoor Ahmed, "Aggregated Signatures for Chaining: A Secure Provenance Scheme", in 15th IEEE International Conference on Trust, Security and Privacy in Computing and Communications (IEEE TrustCom-16), Tianjin, China, August 23-26, 2016.
4. Khizar Hameed, **Muhammad Saleem Khan**, Idrees Ahmed, Zuhaib Uddin Ahmad, Abid Khan, Aun Haider and Nadeem Javaid, "A Zero Watermarking Scheme for Data Integrity in Wireless Sensor Networks", in 19th International Conference on Network-Based Information Systems (NBiS-2016)), September 7-9, 2016, Czech Republic
5. **Muhammad Saleem Khan**, Saira Waris, Idrees Ahmed, and Majid.I.Khan, "A Comprehensive Analysis of Packet Loss in MANETs", in 25th International Conference on Computer Communication and Networks (ICCCN16), 1-4 August, 2016, Hawaii, USA.
6. **Muhammad Saleem Khan**, Daniele Midi, Majid.I.Khan, and Elisa Bertino, "Adaptive Trust Update Frequency in MANETs", in 21st IEEE International Conference on Parallel and Distributed Systems (ICPADS 2015), 14-17 December, 2015, Melbourne, Australia.
7. **Muhammad Saleem Khan**, Daniele Midi, Majid.I.Khan, and Elisa Bertino, "Adaptive Trust Threshold Strategy for Misbehaving Node Detection and Isolation", in 14th IEEE International Conference on Trust, Security and Privacy in Computing and Communications (Trustcom15), 20-22 August 2015, Helsinki, Finland.
8. **Muhammad Saleem Khan**, Qasim Khan Jadoon, Majid I. Khan, "A Comparative Performance Analysis of MANET Routing Protocols under Security Attacks", in 2nd International Conference on Mobile and Wireless Technology (ICMWT2015). June 22- 24, 2015, LNEE, Springer, Bangkok, Thailand.

CURRENT RESEARCH WORK/AREA	9. Zia Ullah, <b>Muhammad Saleem Khan</b> , Idrees Ahmad, Nadeem Javaid, and Majid.I.Khan, “Fuzzy-Based Trust Model for Detection of Selfish Nodes in MANETs”, in 30th IEEE International Conference on Advanced Information Networking and Applications (AINA-2016), Switzerland.
HONORS AND AWARDS	<ul style="list-style-type: none"> <li>1. A Hybrid Deep Learning Approach for Continuous Pakistan Sign Language Translation</li> <li>2. A Deep Learning Approach for Mental Health Classification using Urdu Text</li> <li>3. Packet Drop Attack Analysis using Machine Learning in IoTs</li> <li>4. IoT-based Forest Monitoring System using Acoustic Properties of Tree-cutting in Pakistan</li> </ul> <ul style="list-style-type: none"> <li>• Selected as fellow for MS leading to Ph.D scholarship, funded by Higher Education Commission of Pakistan</li> <li>• Selected for fellowship to the SANOG XXIII held at Thimphu, Bhutan, 13-21 January 2014.</li> <li>• Selected as fellow under “International Research Support Initiative Program (IRSIP)”, funded by Higher Education Commission, Pakistan.</li> <li>• Worked as visiting Researcher for 6 months under the supervision of Elisa Bertino in “Center for Education and Research in Information Assurance and Security (CERIAS)”, Purdue University, USA.</li> <li>• Presented a Research paper in ANT-2014 conference, 20-22 June, 2014, Hasselt, Belgium, funded by Higher Education Commission, Pakistan.</li> <li>• Presented a Research paper in Trustcom-15 conference, 20-22 August, 2015, Helsinki, Finland, funded by Higher Education Commission, Pakistan.</li> <li>• Received a travel grant to present a Research paper in ICPADS-15 conference, 14-17 December, 2015, Melbourne, Australia, funded by Center for Education and Research in Information Assurance and Security (CERIAS), Purdue University, USA.</li> <li>• Received APNIC42 youth fellowship, 28<sup>th</sup> September to 5<sup>th</sup> October, 2016, Colombo, Sri Lanka.</li> </ul>
PROFESSIONAL EXPERIENCE	<ul style="list-style-type: none"> <li>• Worked as Research Associate in a project titled “Design and Development of Hybrid IPv4 and IPv6 Network for QoS Enabled Video Streaming Multicast Application”, Mohammad Ali Jinnah University, from March, 2013, to November, 2014.</li> </ul>
PROJECTS	<ul style="list-style-type: none"> <li>• Automated analysis of car deal conversations using a question-answering model based on BERT LLM.</li> <li>• “Adaptive Routing Architecture for VANET” funded by HEC.</li> <li>• Implementation and simulation of trust based security mechanism in OLSR protocol in NS-2</li> <li>• Multi-level work Queue algorithm implementation and simulation in NS-2 and NS-3.</li> <li>• Multicast communication over Hybrid IPv4-IPv6 network deployment and research.</li> </ul>
REFERENCES	<p><b>Dr. Majid Iqbal Khan</b>, Professor, Department of Computer Science, COMSATS Institute of Information Technology, Islamabad, Pakistan.</p> <ul style="list-style-type: none"> <li>• Email: majid_iqbal@comsats.edu.pk</li> <li>• Phone: (+92)-300-5278858</li> </ul>
	<p><b>Dr. Abid Khan</b>, Assistant Professor, Department of Computer Science, COMSATS Institute of Information Technology, Islamabad, Pakistan.</p> <ul style="list-style-type: none"> <li>• Email: abidkhan@comsats.edu.pk, Phone: (+92) 333-5521936, Office: +92519049323, Ext: 323</li> </ul>