

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

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Date of Birth: 15-02-1983

### 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, Ghufraan 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 Shehryar 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, Zuhair 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.

9. Zia Ullah, **Muhammad Saleem Khan**, 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.

#### CURRENT RESEARCH WORK/AREA

1. A Hybrid Deep Learning Approach for Continuous Pakistan Sign Language Translation
2. A Deep Learning Approach for Mental Health Classification using Urdu Text
3. Packet Drop Attack Analysis using Machine Learning in IoTs
4. IoT-based Forest Monitoring System using Acoustic Properties of Tree-cutting in Pakistan

#### HONORS AND AWARDS

- Selected as fellow for MS leading to Ph.D scholarship, funded by Higher Education Commission of Pakistan
- Selected for fellowship to the SANOG XXIII held at Thimphu, Bhutan, 13-21 January 2014.
- Selected as fellow under “International Research Support Initiative Program (IRSIP)”, funded by Higher Education Commission, Pakistan.
- 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.
- Presented a Research paper in ANT-2014 conference, 20-22 June, 2014, Hasselt, Belgium, funded by Higher Education Commission, Pakistan.
- Presented a Research paper in Trustcom-15 conference, 20-22 August, 2015, Helsinki, Finland, funded by Higher Education Commission, Pakistan.
- 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.
- Received APNIC42 youth fellowship, 28<sup>th</sup> September to 5<sup>th</sup> October, 2016, Colombo, Sri Lanka.

#### PROFESSIONAL EXPERIENCE

- 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.

#### PROJECTS

- Automated analysis of car deal conversations using a question-answering model based on BERT LLM.
- “Adaptive Routing Architecture for VANET” funded by HEC.
- Implementation and simulation of trust based security mechanism in OLSR protocol in NS-2
- Multi-level work Queue algorithm implementation and simulation in NS-2 and NS-3.
- Multicast communication over Hybrid IPv4-IPv6 network deployment and research.

#### REFERENCES

- Dr. Majid Iqbal Khan**, Professor, Department of Computer Science, COMSATS Institute of Information Technology, Islamabad, Pakistan.
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  - Phone: (+92)-300-5278858
- Dr. Abid Khan**, Assistant Professor, Department of Computer Science, COMSATS Institute of Information Technology, Islamabad, Pakistan.
- Email: abidkhan@comsats.edu.pk, Phone: (+92) 333-5521936, Office: +92519049323, Ext: 323