



SHAHID ABBAS

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Google Site | LinkedIn

Google Scholar

Education

MS in Computer Science ([Transcript](#))

COMSATS UNIVERSITY ISLAMABAD, ISLAMABAD, PAKISTAN (LANGUAGE OF INSTRUCTION IS ENGLISH) (Feb-2019 to Sep-2021)

Thesis Title: Blockchain-based Privacy-Preserving Authentication and Malicious Nodes Detection for Optimized Routing in IoT Networks

BS in Telecommunication & Networking ([Transcript](#))

COMSATS UNIVERSITY ISLAMABAD, ATTOCK, PAKISTAN (LANGUAGE OF INSTRUCTION IS ENGLISH) (Sep-2013 to Sep-2017)

Experience

Researcher Blockchain

(OCT 2022-Till 31 DEC 2023)

AUSTRIAN BLOCKCHAIN CENTER | ABC RESEARCH GMBH, VIENNA, AUSTRIA

- Polygon Blockchain-based Secure Voting System.
- Hyperledger Fabric Blockchain-based Supplychain Management.
- Polygon Blockchain-based Tokenization System for the Community.
- IoT based Blockchain Clients Evaluation

Research Assistant ([Selected as Top Student](#))

(Feb 2019-Feb 2022)

COMSENS LAB, COMSATS UNIVERSITY ISLAMABAD, ISLAMABAD, PAKISTAN

Publications

Journal Publications

[4] **Shahid Abbas**, Hina Nasir, Ahmad Almogren, Ayman Altameem, Nadeem Javaid “[Blockchain based Privacy-Preserving Authentication and Malicious Node Detection in Internet of Underwater Things \(IoUT\) Networks](#)”, Published in IEEE Access, IF: 3.9.

[3] Sana Amjad, **Shahid Abbas**, Zain Abubaker, Mohammed H. Alsharif, Abu Jahid, Nadeem Javaid, “[Blockchain based Authentication and Cluster Head Selection using DDR-LEACH in Internet of Sensor Things](#)” Sensors, Published: February 2022, ISSN: 1424-8220. IF: 3.84.

[2] **Shahid Abbas**, Nadeem Javaid, Ahmad Almogren, Sardar Muhammad Gulfam, Abrar Ahmed, Ayman Radwan “[Securing Genetic Algorithm enabled SDN Routing for Blockchain-based Internet of Things](#)”, IEEE Access, Volume: 9, Pages: 139739 - 139754, Published: 8 October 2021, ISSN: 2169-3536. IF: 3.9.

[1] Zahoor Ali Khan, Obaida Abdul Karim, **Shahid Abbas**, Nadeem Javaid, Yousaf bin Zikria, Usman Tariq. “[Q-learning based energy-efficient and void avoidance routing protocol for underwater acoustic sensor networks.](#)”, Computer Networks, Volume: 197, Pages: 108309, Published: October 2021, ISSN: 1389-1286. IF: 5.6.

Conference Proceedings

[2] **Shahid Abbas**, Sana Amjad, Stefan Crass, Amid Moinzadah “Analysis of IoT Connection Patterns with Blockchain” Submitted in The 39th ACM/SIGAPP Symposium On Applied Computing, Avila, Spain

[1] **Shahid Abbas** and Nadeem Javaid, “[Blockchain based Vehicular Trust Management and Less Dense Area Optimization](#)”, in 17th International Conference on Frontiers of Information Technology (FIT), 2019, pp: 250-2505, ISSN: 2334-3141.

Skills

Programming Languages

Solidity | Java Script | Type Script | VueJS | Golang | Matlab | SQLite

RESTfull API | Web3 API | Postman

Tools

Hyperledger Fabric | EVM based Blockchains

Caliper (performance evaluation tool for blockchain) | Oyente (verification tool for smart contracts)

Research Interest

- Blockchain
- Privacy, Security and Trust related issues
- Internet of Things
- Supplychain Management

Languages

English | German A1.1

References

- Research Fellow: Dr. Inam Ullah
Edge Hill University, Ormskirk, UK
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- Chief Scientific Officer: Dr. Alexander Eisl
Austrian Blockchain Center | ABC Research GmbH, Vienna, Austria.
Email: alexander.eisl@abc-research.at