

Syed Taha Ali


Associate Professor

School of Electrical Engineering and Computer Science

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About

Dr. Syed Taha Ali is working as Associate Professor in the School of Electrical Engineering and Computer Science. Dr. Syed Taha Ali has a PhD in Network Security. Dr. Syed Taha Ali has published 31 research articles & conference papers having a citation count of 456, carried out 3 projects and filed 0 intellectual property.

Qualifications

PhD in Network Security	2008 - 2012
University of New South Wales , Australia	
MS in (Telecommunications)	2005 - 2006
University of New South Wales , Australia	
BE in Communication	1998 - 2002
Ghulam Ishaq Khan Institute of Science & Technology , Pakistan	

Experience

Associate Professor	2023- Present
School of Electrical Engineering and Computer Science	
Assistant Professor	2021 - 2023
School of Electrical Engineering and Computer Science	
Assistant Professor	2016 - 2021
School of Electrical Engineering and Computer Science	
Assistant Professor	2016 - 2016
School of Electrical Engineering and Computer Science	
Research Associate	2015 - 2017
Newcastle University , Newcastle University, Newcastle upon Tyne, UK	

Professional Memberships

PEC

Research Projects

National Projects	
Evaluating the Higher Education in Pakistan: An Appraisal of Research Publication Landscape	2025
Funding Agency: PIDE	
Amount: PKR 3,206,808.00	
Status: Approved_inprocess	
International Projects	

Industry Projects

National Projects

Coding, Robotics and AI learning for primary grade students Client: Ministry of Federal Education and Professional Training Amount: PKR 163,920,000.00 Status: Approved_inprocess	2024
Consultant Election Technologies Client: UNDP Amount: PKR 1,786,000.00 Status: Approved_inprocess	2022

International Projects

Research Articles

False data injection attacks on networked control systems <i>Ahmed Pasha Rijha Safdar Syed Taha Ali</i> <i>Journal of Control and Decision</i> , Pages 1-10 Impact Factor: 1.500 Quartile: 3 Citations: 5 DOI: https://doi.org/10.1080/23307706.2023.2261938	2023
Cerberus: A Blockchain-Based Accreditation and Degree Verification System <i>Aamna Tariq Hina Binte Haq Syed Taha Ali</i> <i>IEEE Transactions on Computational Social Systems</i> , Volume: 10, Issue: 4, Page(s): 1503-1514, INSPEC Accession Number: 23515488 Impact Factor: 4.747 Quartile: 2 Citations: 24 DOI: 10.1109/TCSS.2022.3188453	2023
Merging engine implementation for intra-frame sharing in multi-tenant virtual passive optical networks <i>Akhlaque Ahmad Ashfaq Ahmed Arafat Al-Dweik Syed Taha Ali Arsalan Ahmad</i> <i>Journal of Optical Communications and Networking</i> , Volume:15, Issue:4, Page:209-218 Impact Factor: 4.508 Quartile: 1 Citations: 3 DOI: 10.1364/JOCN.474329	2023
A First Look at Private Communications in Video Games using Visual Features <i>Abdul Wajid Nasir Kamal Muhammad Sharjeel Raaez Muhammad Sheikh Huzaiifa Bin Wasim Muhammad Hashir Ali Wajahat Hussain Syed Taha Ali Muhammad Latif Anjum</i> <i>Proceedings on Privacy Enhancing Technologies</i> , Volume 2021 (3), Pages 433–452 Impact Factor: N/A DOI: 10.2478/popets-2021-0055	2021
Secure Opportunistic Contextual Logging for Wearable Healthcare Sensing Devices <i>Muhammad Siddiqui Syed Taha Ali Vijay Sivaraman</i> <i>IEEE Transactions on Dependable and Secure Computing</i> , Volume 18, Issue 2, Pages 753-764 Impact Factor: 6.791 Quartile: 1 Citations: 6 DOI: 10.1109/TDSC.2019.2927674	2021
Forensic Verification of Health Data from Wearable Devices using Anonymous Witnesses <i>Muhammad Siddiqui Syed Taha Ali Vijay Sivaraman</i> <i>IEEE Internet of Things Journal</i> , Volume 7, Issue 11, Pages 10745-10762 Impact Factor: 9.471 Quartile: 1 Citations: 9 DOI: https://doi.org/10.1109/JIOT.2020.2982958	2020
ZombieCoin 2.0: managing next-generation botnets using Bitcoin <i>Syed Taha Ali Patrick McCorry Peter Hyun-Jeen Lee Feng Hao</i> <i>International Journal of Information Security</i> , Vol:17, Pages411–422 Impact Factor: 1.658 Quartile: 2 Citations: 47 DOI: 10.1007/s10207-017-0379-8	2018
SRoWM: Smart Review on Wormhole Mitigation <i>David Samuel Bhatti Shehla Saeed Muhammad Asad Ullah Naila Samar Naaz Syed Saqib Raza Rizvi Syed Taha Ali</i> <i>International Journal of Computer Science and Network Security</i> , Volume: 17, Issue: 12, Pages 178-187 Impact Factor: - DOI: -	2017

A Survey of Securing Networks Using Software Defined Networking <i>Syed Taha Ali Vijay Sivaraman Sanjay Jha Adam Radford</i> <i>IEEE Transactions on Reliability</i> , Volume:64, Issue:3, Page:1086-1097 Impact Factor: 2.287 Quartile: 1 Citations: 146 DOI: 10.1109/TR.2015.2421391	2015
Greening residential Wi-Fi networks under centralized control <i>Vijay Sivaraman John Matthews Craig Russell Syed Taha Ali Arun Vishwanath</i> <i>IEEE Transactions on Mobile Computing</i> , Volume:14, Issue:3, Page:552-564 Impact Factor: 2.456 Quartile: 1 Citations: 13 DOI: 10.1109/TMC.2014.2324582	2015
Eliminating reconciliation cost in secret key generation for body-worn health monitoring devices <i>Syed Taha Ali Vijay Sivaraman Diethelm Ostry</i> <i>IEEE Transactions on Mobile Computing</i> , Volume:13, Issue:12, Page:2763-2776 Impact Factor: 2.543 Quartile: 1 Citations: 94 DOI: 10.1109/TMC.2013.71	2014
Securing first-hop data provenance for bodyworn devices using wireless link fingerprints <i>Syed Taha Ali Vijay Sivaraman Diethelm Ostry Gene Tsudik Sanjay Jha</i> <i>IEEE Transactions on Information Forensics and Security</i> , Volume:9, Issue:12, Page:2193-2204 Impact Factor: 2.408 Quartile: 1 Citations: 34 DOI: 10.1109/TIFS.2014.2357998	2014
Authentication of lossy data in body-sensor networks for cloud-based healthcare monitoring <i>Syed Taha Ali Vijay Sivaraman Diethelm Ostry</i> <i>Future Generation Computer Systems</i> , Volume:35, Page:80-90 Impact Factor: 2.786 Quartile: 1 Citations: 33 DOI: 10.1016/j.future.2013.09.007	2014
Secure key loss recovery for network broadcast in single-hop wireless sensor networks <i>Syed Taha Ali Vijay Sivaraman Ashay Dhamdhere Diethelm Ostry</i> <i>Ad Hoc Networks</i> , Volume:8, Issue:6, Page:668-679 Impact Factor: 1.592 Quartile: 1 Citations: 15 DOI: https://doi.org/10.1016/j.adhoc.2010.01.003	2010

Conference Proceedings

A Game of Forms: a Decade of Rigged Elections in Pakistan <i>Syed Taha Ali Hassan Mahmood Ronan McDermott</i> <i>4th Annual Virtual Electoral Integrity Conference</i> , res.country(231,) Citations: N/A DOI: unlisted	2024
End-to-end verifiable voting for developing countries - what's hard in Lausanne is harder still in Lahore <i>Hina Binte Haq Syed Taha Ali Ronan McDermott</i> <i>EVoteID</i> , res.country(12,) Citations: N/A DOI: https://doi.org/10.48550/arXiv.2210.04764	2022
Pakistan's Internet Voting Experiment <i>Hina Binte Haq Ronan McDermott Syed Taha Ali</i> <i>Fourth International Joint Conference on Electronic Voting E-Vote-ID 2019</i> , res.country(12,) Citations: N/A DOI: https://digi.lib.ttu.ee/i/?13563	2019
Navigating the Cryptocurrency Landscape: An Islamic Perspective <i>Hina Binte Haq Syed Taha Ali</i> <i>6th International Conference on Islam and Liberty</i> , res.country(177,) Citations: N/A DOI: N/A	2018
End to End Security is Not Enough <i>Dylan Clarke Syed Taha Ali</i> <i>Cambridge International Workshop on Security Protocols</i> , res.country(231,)	2018

Citations: 1	
DOI: 10.1007/978-3-319-71075-4_29	
Why Preventing a Cryptocurrency Exchange Heist Isn't Good Enough	2018
<i>Patrick McCorry Malte Moser Syed Taha Ali</i>	
<i>Cambridge International Workshop on Security Protocols</i> , res.country(231,)	
Citations: 7	
DOI: 10.1007/978-3-030-03251-7_27	
Secure lightweight context-driven data logging for bodyworn sensing devices	2017
<i>Muhammad Siddiqi Syed Taha Ali Vijay Sivaraman</i>	
<i>2017 5th International Symposium on Digital Forensic and Security (ISDFS)</i> , res.country(188,)	
Citations: 19	
DOI: 10.1109/ISDFS.2017.7916500	
Bitcoin: Perils of an unregulated global P2P currency	2015
<i>Syed Taha Ali Dylan Clarke Patrick McCorry</i>	
<i>Cambridge International Workshop on Security Protocols</i> , res.country(231,)	
Citations: N/A	
DOI: 10.1007/978-3-319-26096-9_29	
ZombieCoin: Powering next-generation botnets with bitcoin	2015
<i>Syed Taha Ali Patrick McCorry Peter Hyun-Jeen Lee Feng Hao</i>	
<i>International Conference on Financial Cryptography and Data Security, FC 2015</i> , res.country(32,)	
Citations: N/A	
DOI: 10.1007/978-3-662-48051-9_3	
Improving Secret Key Generation Performance for On-Body Devices	2012
<i>Linjia Yao Syed Taha Ali Vijay Sivaraman Diethelm Ostry</i>	
<i>6th International ICST Conference on Body Area Networks</i> , res.country(48,)	
Citations: N/A	
DOI: http://dx.doi.org/10.4108/icst.bodynets.2011.247062	
Authentication of lossy data in body-sensor networks for healthcare monitoring	2012
<i>Syed Taha Ali Vijay Sivaraman Diethelm Ostry</i>	
<i>2012 9th Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON)</i> res.country(233,)	
Citations: N/A	
DOI: 10.1109/SECON.2012.6275814	
Decorrelating secret bit extraction via channel hopping in body area networks	2012
<i>Linjia Yao Syed Taha Ali Vijay Sivaraman Diethelm Ostry</i>	
<i>2012 IEEE 23rd International Symposium on Personal, Indoor and Mobile Radio Communications - (PIMRC)</i> , res.country(13,)	
Citations: N/A	
DOI: 10.1109/PIMRC.2012.6362577	
Zero reconciliation secret key generation for body-worn health monitoring devices	2012
<i>Syed Taha Ali Vijay Sivaraman Diethelm Ostry</i>	
<i>5th ACM Conference on Security and Privacy in Wireless and Mobile Networks</i> , res.country(233,)	
Citations: N/A	
DOI: 10.1145/2185448.2185455	
Secret key generation rate vs. reconciliation cost using wireless channel characteristics in body area networks	2010
<i>Syed Taha Ali Vijay Sivaraman Diethelm Ostry</i>	
<i>2010 IEEE/IFIP International Conference on Embedded and Ubiquitous Computing</i> , res.country(48,)	
Citations: N/A	
DOI: 10.1109/EUC.2010.103	
A per-hop security scheme for highly dynamic wireless sensor networks	2009
<i>Syed Taha Ali Vijay Sivaraman Ashay Dhamdhare</i>	
<i>2009 IEEE 6th International Conference on Mobile Adhoc and Sensor Systems</i> , res.country(48,)	
Citations: N/A	
DOI: 10.1109/MOBHOC.2009.5337020	
A key loss recovery scheme for secure broadcasts in wireless sensor networks	2008
<i>Syed Taha Ali Vijay Sivaraman Ashay Dhamdhare Diethelm Ostry</i>	

Citations: N/A

DOI: 10.1109/PIMRC.2008.4699706

Book Chapters

An Overview of End-to-End Verifiable Voting Systems

2020

Syed Taha Ali Judy Murray

In: *Book on Real-World Electronic Voting: Design, Analysis and Deployment*, 1st Edition, Chapter 8,

Citations: N/A

DOI: <https://doi.org/10.48550/arXiv.1605.08554>

Editorial Activities

2019

Reviewed Papers for Journals

Impact Factor: 9.515