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   2024
  Client: Ministry of Federal Education and Professional Training
  Amount: PKR 163,920,000.00
  Status: Approved_inprocess

Consultant Election Technologies   2022
  Client: UNDP
  Amount: PKR 1,786,000.00
  Status: Approved_inprocess

International Projects

Research Articles

False data injection attacks on networked control systems   2023
  Ahmed Pasha Rijha Safdar Syed Taha Ali
  Journal of Control and Decision, Pages 1-10
  Impact Factor: 1.500 | **Quartile:** 3 | **Citations:** 5
  DOI: https://doi.org/10.1080/23307706.2023.2261938

Cerberus: A Blockchain-Based Accreditation and Degree Verification System   2023
  Aamna Tariq Hina Binte Haq Syed Taha Ali
  IEEE Transactions on Computational Social Systems, 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

Merging engine implementation for intra-frame sharing in multi-tenant virtual passive optical networks   2023
  Akhlaque Ahmad Ashfaq Ahmed Arafat Al-Dweik Syed Taha Ali Arsalan Ahmad
  Journal of Optical Communications and Networking, Volume:15, Issue:4, Page:209-218
  Impact Factor: 4.508 | **Quartile:** 1 | **Citations:** 3
  DOI: 10.1364/JOCN.474329

A First Look at Private Communications in Video Games using Visual Features   2021
  Abdul Wajid Nasir Kamal Muhammad Sharjeel Raaez Muhammad Sheikh Huzaifa Bin Wasim Muhammad Hashir Ali Wajahat Hussain Syed Taha Ali Muhammad Latif Anjum
  Proceedings on Privacy Enhancing Technologies, Volume 2021 (3), Pages 433–452
  Impact Factor: N/A
  DOI: 10.2478/popets-2021-0055

Secure Opportunistic Contextual Logging for Wearable Healthcare Sensing Devices   2021
  Muhammad Siddiqui Syed Taha Ali Vijay Sivaraman
  IEEE Transactions on Dependable and Secure Computing, Volume 18, Issue 2, Pages 753-764
  Impact Factor: 6.791 | **Quartile:** 1 | **Citations:** 6
  DOI: 10.1109/TDSC.2019.2927674

Forensic Verification of Health Data from Wearable Devices using Anonymous Witnesses   2020
  Muhammad Siddiqui Syed Taha Ali Vijay Sivaraman
  IEEE Internet of Things Journal, Volume 7, Issue 11, Pages 10745-10762
  Impact Factor: 9.471 | **Quartile:** 1 | **Citations:** 9
  DOI: https://doi.org/10.1109/JIOT.2020.2982958

ZombieCoin 2.0: managing next-generation botnets using Bitcoin   2018
  Syed Taha Ali Patrick McCorry Peter Hyun-Jeen Lee Feng Hao
  International Journal of Information Security, Vol:17, Pages411–422
  Impact Factor: 1.658 | **Quartile:** 2 | **Citations:** 47
  DOI: 10.1007/s10207-017-0379-8

SRoWM: Smart Review on Wormhole Mitigation   2017
  David Samuel Bhatti Shehla Saeed Muhammad Asad Ullah Naila Samar Naaz Syed Saqib Raza Rizvi Syed Taha Ali
  International Journal of Computer Science and Network Security, Volume: 17, Issue: 12, Pages 178-187
  Impact Factor: -
  DOI: -

A Survey of Securing Networks Using Software Defined Networking 2015

Syed Taha Ali Vijay Sivaraman Sanjay Jha Adam Radford

IEEE Transactions on Reliability, Volume:64, Issue:3, Page:1086-1097

Impact Factor: 2.287 | **Quartile:** 1 | **Citations:** 146
DOI: 10.1109/TR.2015.2421391

Greening residential Wi-Fi networks under centralized control 2015

Vijay Sivaraman John Matthews Craig Russell Syed Taha Ali Arun Vishwanath

IEEE Transactions on Mobile Computing, Volume:14, Issue:3, Page:552-564

Impact Factor: 2.456 | **Quartile:** 1 | **Citations:** 13
DOI: 10.1109/TMC.2014.2324582

Eliminating reconciliation cost in secret key generation for body-worn health monitoring devices 2014

Syed Taha Ali Vijay Sivaraman Diethelm Ostry

IEEE Transactions on Mobile Computing, Volume:13, Issue:12, Page:2763-2776

Impact Factor: 2.543 | **Quartile:** 1 | **Citations:** 94
DOI: 10.1109/TMC.2013.71

Securing first-hop data provenance for bodyworn devices using wireless link fingerprints 2014

Syed Taha Ali Vijay Sivaraman Diethelm Ostry Gene Tsudik Sanjay Jha

IEEE Transactions on Information Forensics and Security, Volume:9, Issue:12, Page:2193-2204

Impact Factor: 2.408 | **Quartile:** 1 | **Citations:** 34
DOI: 10.1109/TIFS.2014.2357998

Authentication of lossy data in body-sensor networks for cloud-based healthcare monitoring 2014

Syed Taha Ali Vijay Sivaraman Diethelm Ostry

Future Generation Computer Systems, Volume:35, Page:80-90

Impact Factor: 2.786 | **Quartile:** 1 | **Citations:** 33
DOI: 10.1016/j.future.2013.09.007

Secure key loss recovery for network broadcast in single-hop wireless sensor networks 2010

Syed Taha Ali Vijay Sivaraman Ashay Dhamdhere Diethelm Ostry

Ad Hoc Networks, 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

Conference Proceedings

A Game of Forms: a Decade of Rigged Elections in Pakistan 2024

Syed Taha Ali Hassan Mahmood Ronan McDermott

4th Annual Virtual Electoral Integrity Conference, res.country(231,)

Citations: N/A
DOI: unlisted

End-to-end verifiable voting for developing countries - what's hard in Lausanne is harder still in Lahore 2022

Hina Binte Haq Syed Taha Ali Ronan McDermott

EVoteID, res.country(12,)

Citations: N/A
DOI: https://doi.org/10.48550/arXiv.2210.04764

Pakistan's Internet Voting Experiment 2019

Hina Binte Haq Ronan McDermott Syed Taha Ali

Fourth International Joint Conference on Electronic Voting E-Vote-ID 2019, res.country(12,)

Citations: N/A
DOI: https://digi.lib.ttu.ee/i/?13563

Navigating the Cryptocurrency Landscape: An Islamic Perspective 2018

Hina Binte Haq Syed Taha Ali

6th International Conference on Islam and Liberty, res.country(177,)

Citations: N/A
DOI: N/A

End to End Security is Not Enough 2018

Dylan Clarke Syed Taha Ali

Cambridge International Workshop on Security Protocols, res.country(231,)

Citations: 1
DOI: 10.1007/978-3-319-71075-4_29

Why Preventing a Cryptocurrency Exchange Heist Isn?t Good Enough
2018

Patrick McCorry Malte Moser Syed Taha Ali

Cambridge International Workshop on Security Protocols, 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

Muhammad Siddiqi Syed Taha Ali Vijay Sivaraman

2017 5th International Symposium on Digital Forensic and Security (ISDFS), res.country(188,)

Citations: 19
DOI: 10.1109/ISDFS.2017.7916500

Bitcoin: Perils of an unregulated global P2P currency
2015

Syed Taha Ali Dylan Clarke Patrick McCorry

Cambridge International Workshop on Security Protocols, res.country(231,)

Citations: N/A
DOI: 10.1007/978-3-319-26096-9_29

ZombieCoin: Powering next-generation botnets with bitcoin
2015

Syed Taha Ali Patrick McCorry Peter Hyun-Jeen Lee Feng Hao

International Conference on Financial Cryptography and Data Security, FC 2015, 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

Linjia Yao Syed Taha Ali Vijay Sivaraman Diethelm Ostry

6th International ICST Conference on Body Area Networks, 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

Syed Taha Ali Vijay Sivaraman Diethelm Ostry

2012 9th Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON) res.country(233,)

Citations: N/A
DOI: 10.1109/SECON.2012.6275814

Decorrelating secret bit extraction via channel hopping in body area networks
2012

Linjia Yao Syed Taha Ali Vijay Sivaraman Diethelm Ostry

2012 IEEE 23rd International Symposium on Personal, Indoor and Mobile Radio Communications - (PIMRC), res.country(13,)

Citations: N/A
DOI: 10.1109/PIMRC.2012.6362577

Zero reconciliation secret key generation for body-worn health monitoring devices
2012

Syed Taha Ali Vijay Sivaraman Diethelm Ostry

5th ACM Conference on Security and Privacy in Wireless and Mobile Networks, 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

Syed Taha Ali Vijay Sivaraman Diethelm Ostry

2010 IEEE/IFIP International Conference on Embedded and Ubiquitous Computing, res.country(48,)

Citations: N/A
DOI: 10.1109/EUC.2010.103

A per-hop security scheme for highly dynamic wireless sensor networks
2009

Syed Taha Ali Vijay Sivaraman Ashay Dhamdhere

2009 IEEE 6th International Conference on Mobile Adhoc and Sensor Systems, 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

Syed Taha Ali Vijay Sivaraman Ashay Dhamdhere Diethelm Ostry

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