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Research Areas

Hiding Information, Cryptography, Quantum Cryptography, Communications and Network Protocols

Academic Titles / Tasks

Assistant Professor, Abdullah Gul University, Fen Bilimleri Enstitüsü, Electrical and Computer Engineering, 2019 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **EPIC: Efficient Privacy-Preserving Scheme With EtoE Data Integrity and Authenticity for AMI Networks**
Alsharif A., Nabil M., TONYALI S., Mohammed H., Mahmoud M., Akkaya K.
IEEE INTERNET OF THINGS JOURNAL, vol.6, no.2, pp.3309-3321, 2019 (SCI-Expanded)
- II. **A realistic performance evaluation of privacy-preserving protocols for smart grid AMI networks**
TONYALI S., Munoz R., Akkaya K., Ozgur U.
JOURNAL OF NETWORK AND COMPUTER APPLICATIONS, vol.119, pp.24-41, 2018 (SCI-Expanded)
- III. **Privacy-Preserving Protocols for Secure and Reliable Data Aggregation in IoT-enabled Smart Metering Systems**
TONYALI S., AKKAYA K., SAPUTRO N., ULUAGAC S., NOJOURIAN M.
Future Generation Computer Systems-The International Journal Of Grid Computing-Theory Methods And Applications, vol.78, pp.547-557, 2018 (SCI-Expanded)
- IV. **Scalable Certificate Revocation Schemes for Smart Grid AMI Networks Using Bloom Filters**
Rabieh K., Mahmoud M. M. E. A., Akkaya K., TONYALI S.
IEEE TRANSACTIONS ON DEPENDABLE AND SECURE COMPUTING, vol.14, no.4, pp.420-432, 2017 (SCI-Expanded)
- V. **Secure Data Obfuscation Scheme to Enable Privacy-Preserving State Estimation in Smart Grid AMI Networks**
TONYALI S., Cakmak O., Akkaya K., Mahmoud M. M. E. A., Guvenc I.
IEEE INTERNET OF THINGS JOURNAL, vol.3, no.5, pp.709-719, 2016 (SCI-Expanded)
- VI. **Customized Certificate Revocation Lists for IEEE 802.11s-Based Smart Grid AMI Networks**
Akkaya K., Rabieh K., Mahmoud M., TONYALI S.
IEEE TRANSACTIONS ON SMART GRID, vol.6, no.5, pp.2366-2374, 2015 (SCI-Expanded)

Books & Book Chapters

- I. **A Review of Moving Target Defense Mechanisms for Internet of Things Applications**
SAPUTRO N., TONYALI S., AYDEĞER A., AKKAYA K., RAHMAN M., ULUAĞAÇ A. S.
in: Modeling and Design of Secure Internet of Things, Kamhoua Charles A., Njilla Laurent L., Kott Alexander, Shetty Sachin, Editor, John Wiley Sons, Inc., pp.563-614, 2020

Refereed Congress / Symposium Publications in Proceedings

- I. **Real-Time Wall Detection and Coloring in Android Platform**
Nadifi A., Göktas B., Tonyali S.
International Online Conferences on Engineering and Natural Sciences, Gümüşhane, Turkey, 05 July 2021, pp.332
- II. **Demonstration of Denial-of-Service Attack on an Internet-of-Things Device**
Tonyali S.
INTERNATIONAL CONFERENCE ON CYBER SECURITY AND DIGITAL FORENSICS (ICONSEC), Yalova, Turkey, 04 June 2021, pp.28-32
- III. **Performing and Mitigating a Distributed Denial of Service Attack**
Şanlı Y., Mohmand H., Win L. L., Tonyali S.
International Symposium of Scientific Research and Innovative Studies (ISSRIS), Balıkesir, Turkey, 22 February 2021, pp.1267-1279
- IV. **A scalable protocol stack for IEEE 802.11s-based advanced metering infrastructure networks**
TONYALI S., AKKAYA K.
2018 15th IEEE Annual Consumer Communications Networking Conference (CCNC), Las Vegas, NV, 12 - 15 January 2018
- V. **An attribute-based reliable multicast-over-broadcast protocol for firmware updates in smart meter networks**
TONYALI S., AKKAYA K., SAPUTRO N.
2017 IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS), Atlanta, GA, 1 - 04 May 2017
- VI. **An Attribute and Network Coding-Based Secure Multicast Protocol for Firmware Updates in Smart Grid AMI Networks**
TONYALI S., AKKAYA K., SAPUTRO N., XIUZHEN C.
2017 26th International Conference on Computer Communication and Networks (ICCCN), Vancouver, BC, Canada, 31 July - 03 August 2017
- VII. **Efficient Certificate Verification for Vehicle-to-Grid Communications**
SAPUTRO N., TONYALI S., AKKAYA K., CEBE M., MAHMOUD M.
International Conference on Future Network Systems and Security (FNSS), 31 August - 02 September 2017
- VIII. **Performance Analysis of Certificate Renewal Scheme for AMI Networks**
ALSHARIF A., TONYALI S., MAHMOUD M., AKKAYA K., ISMAIL M., SERPEDİN E.
International Workshop on Computer Science and Engineering (WCSE), 25 - 27 June 2017
- IX. **Attribute and Network Coding based Secure Multicast Protocol for Firmware Updates in Smart Grid AMI Networks**
TONYALI S., AKKAYA K.
Florida Institute for Cybersecurity - Research Conference on Cybersecurity, 24 - 27 March 2017
- X. **Testbed and Simulation-based Evaluation of Privacy-preserving Algorithms for Smart Grid AMI Networks**
OZGUR U., TONYALI S., AKKAYA K.
IEEE Conference on Local Computer Networks Workshops (LCN Workshops), 7 - 10 November 2016, pp.181-186
- XI. **Efficient Privacy-Preserving Data Collection Scheme for Smart Grid AMI Networks**
MOHAMMED H., TONYALI S., RABIEH K., MAHMOUD M., AKKAYA K.

IEEE Global Communications Conference (GLOBECOM), 4 - 08 December 2016

- XII. **An Attribute & Network Coding-based Secure Multicast Protocol for Firmware Updates in Smart Grid AMI Networks**
TONYALI S., AKKAYA K., SAPUTRO N., CHENG X.
26th International Conference on Computer Communication and Networks (ICCCN), Vancouver, Canada, 31 July - 03 August 2017
- XIII. **Addressing Network Interoperability in Hybrid IEEE 802.11s-LTE Smart Grid Communications**
SAPUTRO N., AKKAYA K., TONYALI S.
IEEE Conference on Local Computer Networks (LCN), 7 - 10 November 2016, pp.623-626
- XIV. **Comparative Evaluation of Smart Grid AMI Networks: Performance under Privacy**
OZGUR U., TONYALI S., AKKAYA K., ŞENEL F.
IEEE Symposium on Computers and Communication (ISCC), 27 - 30 June 2016
- XV. **A Reliable Data Aggregation Mechanism with Homomorphic Encryption in Smart Grid AMI Networks**
TONYALI S., AKKAYA K., SAPUTRO N., ULUAĞAÇ A. S.
IEEE Annual Consumer Communications Networking Conference (CCNC), 8 - 11 January 2016
- XVI. **Assessing the Feasibility of Fully Homomorphic Encryption for Smart Grid AMI Networks**
TONYALI S., SAPUTRO N., AKKAYA K.
International Conference on Ubiquitous and Future Networks, 7 - 10 July 2015
- XVII. **Application of Recently Proposed Metaheuristics to the Sequence Dependent TSP**
TONYALI S., AKKAYA A. F.
International Conference on Computer Science, Applied Mathematics and Applications (ICCSAMA), 11 - 13 May 2015
- XVIII. **Efficient Generation and Distribution of CRLs for IEEE 802.11s-based Smart Grid AMI Networks**
AKKAYA K., RABIEH K., MAHMOUD M., TONYALI S.
IEEE International Conference on Smart Grid Communications (SmartGridComm), 3 - 06 November 2014, pp.982-988
- XIX. **An Efficient Certificate Revocation Scheme for Large-scale AMI Networks**
MAHMOUD M., AKKAYA K., RABIEH K., TONYALI S.
IEEE 33rd International Performance Computing and Communications Conference (IPCCC), 5 - 07 December 2014

Metrics

Publication: 26

Citation (WoS): 77

Citation (Scopus): 105

H-Index (WoS): 5

H-Index (Scopus): 5