

Publications

Prof. **N. Asokan**

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A Peer-reviewed scientific articles**A1 Journal article (refereed), original research**

1. Tommi Gröndahl, **N. Asokan**: Effective writing style transfer via combinatorial paraphrasing. Proc. Priv. Enhancing Technol. 2020(4): 175-195 (2020) <https://doi.org/10.2478/popets-2020-0068>
2. Tommi Gröndahl, **N. Asokan**: Text Analysis in Adversarial Settings: Does Deception Leave a Stylistic Trace?, ACM Computing Surveys (2019). <https://doi.org/10.1145/3310331>
3. Lachlan Gunn, Ricardo Vieitez Parra, **N. Asokan**: Circumventing Cryptographic Deniability with Remote Attestation, Proceedings on Privacy Enhancing Technologies (PoPETs), 2019(3):350-369, <https://doi.org/10.2478/popets-2019-0051>
4. Samuel Marchal, Markus Miettinen, Thien Duc Nguyen, Ahmad-Reza Sadeghi, **N. Asokan**: AUDI: Toward Autonomous IoT Device-Type Identification Using Periodic Communication. IEEE JSAC 37(6):1402-1412 (2019), <https://doi.org/10.1109/JSAC.2019.2904364>
5. Jian Liu, Wenting Li, Ghassan O. Karame, **N. Asokan**: Scalable Byzantine Consensus via Hardware-Assisted Secret Sharing. IEEE Trans. Computers 68(1): 139-151 (2019), <https://doi.org/10.1109/TC.2018.2860009>
6. Babins Shrestha, Nitesh Saxena, Hien Thi Thu Truong, **N. Asokan**: Sensor-based Proximity Detection in the Face of Active Adversaries, IEEE Transactions on Mobile Computing (TMC), 18(2): 444-457 (2019), <https://doi.org/10.1109/TMC.2018.2839604>
7. Ágnes Kiss, Masoud Naderpour, Jian Liu, **N. Asokan**, Thomas Schneider: SoK: Modular and Efficient Private Decision Tree Evaluation, Proceedings on Privacy Enhancing Technologies (PoPETs), 2019(2):187-208, <https://doi.org/10.2478/popets-2019-0026>
8. Markus Miettinen, **N. Asokan**: Ad-hoc key agreement: A brief history and the challenges ahead, Computer Communications, 131:32-34, 2018. <https://doi.org/10.1016/j.comcom.2018.07.030>
9. Elena Reshetova, Hans Liljestrand, Andrew Paverd, **N. Asokan**: Towards Linux Kernel Memory Safety, Software Practice and Experience, 48(12):2237-2256, 2018. <https://doi.org/10.1002/spe.2638>
10. **N. Asokan**, Thomas Nyman, Norrathep Rattanavipanon, Ahmad-Reza Sadeghi, Gene Tsudik: ASSURED: Architecture for Secure Software Update of Realistic Embedded Devices, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), 37(11): 2290-2300 (2018). <https://doi.org/10.1109/TCAD.2018.2858422>
11. Jian Liu, Wenting Li, Ghassan Karame, **N. Asokan**: Toward fairness of cryptocurrency payments, IEEE Security & Privacy, May/June (2018), 16(3): 81-89 (2018) <http://doi.ieeecomputersociety.org/10.1109/MSP.2018.2701163>

12. Andrew Paverd, Sandeep Tamrakar, Hoang Long Nguyen, Praveen Pendyala, Thien Duc Nguyen, Elizabeth Stobert, Tommi Gröndahl, **N. Asokan**, Ahmad-Reza Sadeghi: OmniShare: Encrypted Cloud Storage for the Multi-Device Era, IEEE Internet Computing 22(4): 27-36 (2018).
<http://dx.doi.org/10.1109/MIC.2018.182130646>
13. Ágnes Kiss, Jian Liu, Thomas Schneider, **N. Asokan**, Benny Pinkas: Private Set Intersection for Unequal Set Sizes with Mobile Applications, Proceedings on Privacy Enhancing Technologies (PoPETs), 2017(4):97-117, <https://doi.org/10.1515/popets-2017-0044>
14. Samuel Marchal, Giovanni Armano, Tommi Gröndahl, Kalle Saari, Nidhi Singh, **N. Asokan**: Off-the-Hook: An Efficient and Usable Client-Side Phishing Prevention Application. IEEE Transactions on Computers, 66(10):1717-1733, (2017) <https://doi.org/10.1109/TC.2017.2703808>
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<http://dx.doi.org/10.1016/j.comcom.2016.03.002>
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18. Jan-Erik Ekberg, Kari Kostiaainen, **N. Asokan**: The Untapped Potential of Trusted Execution Environments on Mobile Devices, IEEE Security & Privacy Magazine, 12(4): 29-37 (2014).
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24. Günter Karjoth, **N. Asokan**, Ceki Gülcü: Protecting the Computation Results of Free-roaming Agents, Personal Ubiquitous Computing, 2(2):92-99, December 1998.
<http://dx.doi.org/10.1007/BF01324939>
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26. J. L. Abad-Peiro, **N. Asokan**, Michael Steiner, Michael Waidner: Designing a Generic Payment Service, IBM Systems Journal, 37(1):72-88, January 1998. <http://dx.doi.org/10.1147/sj.371.0072>

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A2 Review article, Literature review, Systematic review

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<http://doi.ieeecomputersociety.org/10.1109/2.612244>: Translation: (in Japanese) *Nikkei Computer*, pages 195-201, issue of March 30, 1998.

A3 Book section, chapters in research books

29. **N. Asokan**, Kaisa Nyberg: Security Associations for Personal Devices, (**Invited** book chapter) in S. Gritzalis et al. (Editors), "Security and Privacy in Wireless and Mobile Networking", (preprint at <http://research.ics.tkk.fi/publications/knyberg/secass.pdf>), Troubador Publishing, 2008, ISBN 978-1905886-906, http://www.troubador.co.uk/book_info.asp?bookid=428
30. **N. Asokan**, Matthias Schunter: Optimistic Fair Exchange (**Invited** book chapter) in H. Raghav Rao and Shambhu Upadhyay (editors), *Information Assurance, Security and Privacy Services*, Emerald Group Publishing Ltd., May 2009, pages 365-390.
<https://books.google.com/books?isbn=1848551940>
31. **N. Asokan**, Jan-Erik Ekberg: Mobile Digital Rights Management (book chapter) in *Professional MITA – Visions and Implementations*, edited by Nokia, IT Press, 2002.
32. **N. Asokan**, Phil Janson, Michael Steiner, Michael Waidner: State of the Art in Electronic Payment Systems, (**Invited** book chapter) in *Advances in Computers*, Vol. 53, pages 425-449, Edited by Marvin. V. Zelkowitz, Academic Press, March 2000. [http://dx.doi.org/10.1016/S0065-2458\(00\)80009-1](http://dx.doi.org/10.1016/S0065-2458(00)80009-1)

A4 Conference proceedings

33. Hans Liljestrand, Thomas Nyman, Lachlan J. Gunn, Jan-Erik Ekberg, **N. Asokan**: PACStack: an Authenticated Call Stack. (to appear) in *Usenix Security Conference*, 2021.
34. Mika Juuti, Tommi Gröndahl, Adrian Flanagan, **N. Asokan**: A little goes a long way: Improving toxic language classification despite data scarcity. (to appear) in *Findings of ACL: EMNLP 2020*
35. Hans Liljestrand, Zaheer Gauhar, Thomas Nyman, Jan-Erik Ekberg, **N. Asokan**: Protecting the stack with PACed canaries, In *SysTEX 2019*. <https://doi.org/10.1145/3342559.3365336>
36. Hien Thi Thu Truong, Juhani Toivonen, Thien Duc Nguyen, Claudio Soriente, Sasu Tarkoma, **N. Asokan**: DoubleEcho: Mitigating Context-Manipulation Attacks in Copresence Verification. *PerCom 2019*: 1-9, <https://doi.org/10.1109/PERCOM.2019.8767404>
37. Andrew Paverd, Marcus Völp, Ferdinand Brassler, Matthias Schunter, **N. Asokan**, Ahmad-Reza Sadeghi, Paulo Jorge Esteves Veríssimo, Andreas Steininger, Thorsten Holz: Sustainable Security & Safety: Challenges and Opportunities. *CERTS 2019*: 4:1-4:13
<https://doi.org/10.4230/OASlcs.CERTS.2019.4>
38. Fritz Alder, **N. Asokan**, Arseny Kurnikov, Andrew Paverd, Michael Steiner: S-FaaS: Trustworthy and Accountable Function-as-a-Service using Intel SGX, *ACM CCSW 2019*.
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39. Lachlan J. Gunn, Jian Liu, Bruno Vavala, **N. Asokan**: Making Speculative BFT Resilient with Trusted Monotonic Counters, (to appear in) SRDS 2019.
40. Long Cheng, Hans Liljestrand, Md Salman Ahmed, Thomas Nyman, Danfeng (Daphne) Yao, Trent Jaeger, **N. Asokan**: Exploitation Techniques and Defenses for Data-Oriented Attacks, In IEEE SecDev 2019. <https://doi.org/10.1109/SecDev.2019.00022>
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43. Hans Liljestrand, Thomas Nyman, Jan-Erik Ekberg, **N. Asokan**: Authenticated Call Stack, DAC 2019 (poster), <https://doi.org/10.1145/3316781.3322469>
44. Thomas Nyman, Ghada Dessouky, Shaza Zeitouni, Aaro Lehtikainen, Andrew Paverd, Ahmad-Reza Sadeghi, **N. Asokan**: HardScope: Hardening Embedded Systems Against Data-Oriented Attacks, DAC 2019. <https://doi.org/10.1145/3316781.3317836>
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73. Otto Huhta, Prakash Shrestha, Swapnil Udar, Mika Juuti, Nitesh Saxena, **N. Asokan**: Pitfalls in Designing Zero-Effort Deauthentication: Opportunistic Human Observation Attacks, Networks and Distributed Systems Conference (NDSS), February 2016, <http://www.internetsociety.org/sites/default/files/blogs-media/pitfalls-designing-zero-effort-deauthentication-opportunistic-human-observation-attacks.pdf>
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G Theses

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H Patents and invention disclosures

Granted Patents: (Open [this link](#) for an up-to-date list of granted US patents)

1. Method and system for byzantine fault-tolerance replicating of data (US 10,797,877)

2. Method and system for byzantine fault-tolerance replicating of data on a plurality of servers (US 10,664,353)
3. Implementation of an integrity-protected secure storage (US 10,565,400)
4. Method and device for verifying the integrity of platform software of an electronic device (US 10,482,238)
5. Method and apparatus for identity based ticketing (US 10,374,799)
6. Method and system for byzantine fault-tolerance replicating of data on a plurality of servers (US 10,049,017)
7. Method and apparatus for accelerated authentication (US 9,979,545)
8. Method and apparatus for providing bootstrapping procedures in a communication network (US 9,906,528)
9. Method and device for verifying the integrity of platform software of an electronic device (US 9,881,150)
10. Device to device security using NAF key (US 9,781,085)
11. Mechanisms for certificate revocation status verification on constrained devices (US 9,756,036)
12. Method and apparatus for accelerated authentication (US 9,667,423)
13. Authenticating security parameters (US 9,503,462)
14. Method and device for verifying the integrity of platform software of an electronic device (US 9,438,608)
15. Method and apparatus for providing bootstrapping procedures in a communication network (US 9,300,641)
16. Implementation of an integrity-protected secure storage (US 9,171,187)
17. Method and apparatus to reset platform configuration register in mobile trusted module (US 9,087,198)
18. Methods and apparatus for reliable and privacy protecting identification of parties' mutual friends and common interests (US 9,003,486)
19. Method and device for verifying the integrity of platform software of an electronic device (US 8,954,738)
20. Method and apparatus for adjusting context-based factors for selecting a security policy (US 8,898,793)
21. Methods, apparatuses, and computer program products for bootstrapping device and user authentication (US 8,869,252)
22. Securing communication (US 8,769,284)
23. Credential provisioning (US 8,724,819)
24. Method, apparatus and computer program product for secure software installation (US 8,701,197)
25. Method and apparatus for selecting a security policy (US 8,621,656)
26. Method and apparatus to bind a key to a namespace (US 8,566,910)
27. Administration of wireless local area networks (US 8,532,304)
28. System and method for establishing bearer-independent and secure connections (US 8,484,466)
29. Requesting digital certificates (US 8,397,060)
30. Authenticated group key agreement in groups such as ad-hoc scenarios (US 8,386,782)
31. Methods, apparatuses, and computer program products for authentication of fragments using hash trees (US 8,352,737)
32. Secure data transfer (US 8,145,907)
33. Establishment of a trusted relationship between unknown communication parties (US 8,132,005)

34. Accessing protected data on network storage from multiple devices (US 8,059,818)
35. Method and system for managing cryptographic keys (EP1561299, US 7,920,706)
36. Address acquisition. (US 6,959,009, US 7,920,575)
37. Method for remote message attestation in a communication system (US 7,913,086)
38. Authenticating users (US 7,788,493)
39. System, method and computer program product for authenticating a data agreement between network entities (US 7,783,041)
40. Linked authentication protocols (US 7,707,412)
41. Method for protecting electronic device, and electronic device (US 7,630,495)
42. System and method for dynamically enforcing digital rights management rules (US 7,529,929)
43. Information hiding non-interactive proofs-of-work (Korea 37764-KR-PCT)
44. Secure backup and recovery using a key recovery service (Korea 808654)
45. Controlling delivery of certificates in a mobile communication system (US 7,526,642)
46. Method for sharing the authorization to use specific resources (US 7,343,014)
47. System and method of secure authentication and billing for goods and services using a cellular telecommunication and an authorization infrastructure (US 7,308,431)
48. Method, system, and devices for transferring accounting information (US 7,251,733)
49. Method, system and computer program product for secure ticketing in a communication device (US 7,207,060)
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52. Method, system and computer program product for a trusted counter in an external security element for securing a personal communication device. (US 7,178,041)
53. Personal device, terminal, server and methods for establishing a trustworthy connection between a user and a terminal (US 7,149,895, EP 1026641)
54. Authentication in a packet data network. (US 7,107,620, US 7,512,796, EP1273128)
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57. SIM based authentication mechanism for DHCPv4/v6 messages. (US 6,704,789, EP1175765B1)

Invention disclosures: Pending patent applications are too numerous to list here in full. The complete list of patents and patent applications at the European patent office can be found [here](#). The complete list of patent applications (73 items) at the US patent office can be found [here](#).

Citations Record

- Google Scholar: 14,690+ citations, H-Index: 61
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- Publons/Researcher ID: 1580+ citations, H-Index: 20
<https://publons.com/researcher/2739461/n-asokan/>, <http://www.researcherid.com/rid/D-3182-2012>
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