

Publications by year

The publications listed here are in *reverse chronological order*, grouped by the year of publications with a separate publication counter per year. The following list containing a total of **88** publications does not include invited talks and patents. The bibliography style in use is L^AT_EX IEEEtran.

2020

- [1] S. Marsh, T. Atele-Williams, **A. Basu**, N. Dwyer, P. R. Lewis, H. Miller-Bakewell, and J. Pitt, “Thinking about Trust: People, Process, and Place,” *Elsevier Cell Patterns*, vol. 1, June 2020.
- [2] H. Nagayoshi, T. Terada, T. Sato, **A. Basu**, C. Otahara, H. Uchiyama, and M. Sato, “Verification of Process Suitability for creating Trust in Supply Chains,” in *Symposium on Cryptography and Information Security*, Kochi, Japan, 2020, (*non-peer reviewed symposium; the original title is in Japanese, see <https://www.iwsec.org/scis/2020/program.html>.*).
- [3] K. Naganuma, A. Inoue, M. Okazaki, M. Yoshino, **A. Basu**, and N. Kunihiro, “Post-quantum zk-SNARKs for Arithmetic Circuit,” in *Symposium on Cryptography and Information Security*, Kochi, Japan, 2020, (*non-peer reviewed symposium, see <https://www.iwsec.org/scis/2020/program.html>.*).
- [4] M. S. Rahman, A. Al Omar, M. Z. A. Bhuiyan, **A. Basu**, S. Kiyomoto, and G. Wang, “Accountable cross-border data sharing using blockchain under relaxed trust assumption,” *IEEE Transactions on Engineering Management*, 2020.

2019

- [1] **A. Basu**, T. Dimitrakos, Y. Nakano, and S. Kiyomoto, “A framework for blockchain-based verification of integrity and authenticity,” in *Proceedings of the IFIP WG 11.11 International Conference on Trust Management (IFIPTM)*, Copenhagen, Denmark, 2019.

- [2] **A. Basu**, S. Marsh, T. Darbyshire, N. Dwyer, and H. Miller-Bakewell, “Empowering People with Informed Consent,” in *4th International Conference on Data for Policy*, London, UK, 2019.
- [3] A. A. Omar, M. Z. A. Bhuiyan, **A. Basu**, S. Kiyomoto, and M. S. Rahman, “Privacy-friendly platform for healthcare data in cloud based on blockchain environment,” *Future Generation Computer Systems*, 2019.

2018

- [1] S. Kiyomoto, K. Fukushima, **A. Basu**, and M. S. Rahman, “On Consensus Protocols in Parallel-Blockchain Environment,” in *13th International Conference for Internet Technology and Secured Transactions (ICITST)*, Cambridge, UK, 2018.
- [2] K. Suksomboon, A. Tagami, **A. Basu**, and J. Kurihara, “In-Device Proxy Re-encryption Service for Information-Centric Networking Access Control,” in *IEEE Conference on Local Computer Networks (LCN)*. Chicago, USA: IEEE, 2018.
- [3] M. S. Rahman, **A. Basu**, T. Nakamura, H. Takasaki, and S. Kiyomoto, “PPM: Privacy Policy Manager for Home Energy Management,” *Journal of Wireless Mobile Networks, Ubiquitous Computing and Dependable Applications (JoWUA)*, vol. 9, no. 2, pp. 42–56, 2018.
- [4] T. Mimoto, S. Kiyomoto, S. Hidano, **A. Basu**, and A. Miyaji, “The Possibility of Matrix Decomposition as Anonymization and Evaluation for Time-sequence Data,” in *International Conference on Privacy, Security and Trust (PST)*. Belfast, UK: IEEE, 2018.
- [5] S. Ruj, M. S. Rahman, **A. Basu**, and S. Kiyomoto, “BlockStore: A Secure Decentralized Storage Framework on Blockchain,” in *International Conference on Advanced Information Networking and Applications (AINA)*. Kraków, Poland: IEEE, 2018.

2017

- [1] S. Kiyomoto, **A. Basu**, M. S. Rahman, and S. Ruj, “On blockchain-based authorization architecture for beyond-5g mobile services,” in *12th International Conference for Internet Technology and Secured Transactions (ICITST)*, Dec 2017, pp. 136–141.
- [2] A. Al Omar, M. S. Rahman, **A. Basu**, and S. Kiyomoto, “MediBchain: A Blockchain Based Privacy Preserving Platform for Healthcare Data,” in

- International Conference on Security, Privacy and Anonymity in Computation, Communication and Storage*. Guangzhou, China: Springer, 2017, pp. 534–543.
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 - [5] M. S. Rahman, **A. Basu**, and S. Kiyomoto, “Decentralized ciphertext-policy attribute-based encryption: A post-quantum construction,” *Journal of Internet Services and Information Security (JISIS)*, vol. 7, no. 3, pp. 1–16, 2017.
 - [6] R. Xu, K. Morozov, **A. Basu**, M. S. Rahman, and S. Kiyomoto, “Security analysis of a verifiable server-aided approximate similarity computation,” in *International Workshop on Security (IWSEC)*. Hiroshima, Japan: Springer, 2017, pp. 159–178.
 - [7] **A. Basu**, M. S. Rahman, R. Xu, K. Fukushima, and S. Kiyomoto, “VI-Graph – A Framework for Verifiable Information,” in *Proceedings of the IFIP WG 11.11 International Conference on Trust Management (IFIPTM)*, Göteborg, Sweden, 2017, pp. 12–20.
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 - [10] M. S. Rahman, **A. Basu**, and S. Kiyomoto, “Broker-mediated trade finance with blockchains,” in *Poster at the 21st International Conference on Financial Cryptography and Data Security (FC)*, Malta, 2017.
 - [11] M. S. Rahman, A. Basu, and S. Kiyomoto, “Towards outsourced privacy-preserving multiparty dbscan,” in *22nd Pacific Rim International Symposium on Dependable Computing (PRDC)*. Christchurch, New Zealand: IEEE, 2017, pp. 225–226.
 - [12] M. S. Rahman, **A. Basu**, S. Kiyomoto, and M. Z. A. Bhuiyan, “Privacy-friendly secure bidding for smart grid demand-response,” *Information Sciences*, vol. 379, pp. 229–240, 2017.

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- [1] **A. Basu**, R. Xu, M. S. Rahman, and S. Kiyomoto, “User-in-a-context: A blueprint for context-aware identification,” in *Proceedings of the Privacy, Security and Trust (PST)*. Auckland, New Zealand: IEEE, 2016, pp. 329–334.
- [2] M. S. Rahman, **A. Basu**, and S. Kiyomoto, “Decentralized ciphertext-policy attribute-based encryption from learning with errors over rings,” in *Proceedings of the Trustcom/BigDataSE/ISPA*. Tianjin, China: IEEE, 2016, pp. 1759–1764.
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- [4] T. Mimoto, **A. Basu**, and S. Kiyomoto, “Towards practical k-anonymization: Correlation-based construction of generalization hierarchy,” in *Proceedings of the International Joint Conference on e-Business and Telecommunications (SECURITY)*, Lisbon, Portugal, 2016, pp. 411–418.
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- [1] **A. Basu**, A. Monreale, R. Trasarti, J. C. Corena, F. Giannotti, D. Pedreschi, S. Kiyomoto, Y. Miyake, and T. Yanagihara, “A risk model for privacy in trajectory data,” *Journal of Trust Management*, vol. 2, no. 1, pp. 1–23, 2015.
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- [2] **A. Basu**, J. C. Corena, A. Monreale, D. Pedreschi, F. Giannotti, S. Kiyomoto, J. Vaidya, and Y. Miyake, “CF-inspired privacy-preserving prediction of next location in the cloud,” in *Poster in the IEEE Cloudcom*, Singapore, 2014.
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- [4] **A. Basu**, J. Vaidya, J. C. Corena, S. Kiyomoto, S. Marsh, G. Guo, J. Zhang, and Y. Miyake, “Opinions of People: Factoring in Privacy and Trust,” *ACM SIGAPP Applied Computing Review*, vol. 14(3), September 2014.
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- [6] J. C. Corena, **A. Basu**, Y. Nakano, S. Kiyomoto, Y. Miyake, and T. Ohtsuki, “A Multiple-Server Efficient Reusable Proof of Data Possession from Private Information Retrieval Techniques,” in *Proceedings of the International conference on Security and Cryptography (SECRYPT)*, Vienna, Austria, 2014.

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- [13] J. C. Corena, **A. Basu**, S. Kiyomoto, Y. Miyake, and T. Ohtsuki, “XOR Network Coding Pollution Prevention Without Homomorphic Functions,” in *Proceedings of the IEEE Consumer Communications and Networking Conference*, Las Vegas, USA, 2014.

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