

## 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. A total of **82** publications listed here does not include invited talks and patents. The bibliography style in use is L<sup>A</sup>T<sub>E</sub>X IEEEtran.

2019

- [1] 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.
- [3] **A. Basu**, R. Xu, J. C. Corena, and S. Kiyomoto, “Hypercubes and private information retrieval,” in *Proceedings of the 19th International Conference on Information and Communications Security (ICICS)*. Beijing, China: Springer, 2017, pp. 469–475.
- [4] K. Suksomboon, A. Tagami, **A. Basu**, and J. Kurihara, “IPRES: in-device proxy re-encryption service for secure ICN,” in *Proceedings of the 4th ACM Conference on Information-Centric Networking (ICN)*. Berlin, Germany: ACM, 2017, pp. 176–177.
- [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.
- [8] S. Kiyomoto, M. S. Rahman, and **A. Basu**, “On blockchain-based anonymized dataset distribution platform,” in *15th International Conference on Software Engineering Research, Management and Applications (SERA)*. London, UK: IEEE, 2017, pp. 85–92.
- [9] **A. Basu**, J. J. Daniel, S. Ruj, M. S. Rahman, T. Dimitrakos, and S. Kiyomoto, “Accountability and integrity for data management using blockchains,” in *Poster at the 21st International Conference on Financial Cryptography and Data Security (FC)*, Malta, 2017.
- [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.

# 2016

- [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.
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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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<h1>2014</h1>
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- [12] G. Guo, J. Zhang, D. Thalmann, **A. Basu**, and N. Yorke-Smith, “From Ratings to Trust: an Empirical Study of Implicit Trust in Recommender Systems,” in *Proceedings of the ACM Symposium on Applied Computing (SAC) RS track*, Gyeongju, Korea, 2014.
- [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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<h1>2011</h1>
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