

## Publications by type

The publications listed here are in *reverse chronological order*, grouped by the type of publications with a separate publication counter per named type. The following list containing a total of **88** publications does not include invited talks and patents. The bibliography style in use is L<sup>A</sup>T<sub>E</sub>X IEEEtran.

### Books and book chapters

- [1] S. Marsh, N. Dwyer, **A. Basu**, T. Storer, K. Renaud, K. El-Khatib, B. Esfandiari, S. Noël, and M. V. Bicakci, “Foreground Trust as a Security Paradigm: Turning Users into Strong Links,” in *Information Security in Diverse Computing Environments*. IGI Global, 2014.
- [2] I. Wakeman, A. Light, J. Robinson, D. Chalmers, and **A. Basu**, *Deploying Pervasive Advertising in a Farmers’ Market*. Springer HCI Series, 2011, ch. Pervasive Advertising and Shopping.

### Journals, magazines and other articles

- [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] 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.
- [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.
- [4] 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.
- [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] 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.
  - [7] **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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  - [9] **A. Basu**, S. Fleming, J. Stanier, S. Naicken, I. Wakeman, and V. K. Gurbani, “The state of peer-to-peer network simulators,” *ACM Computing Surveys*, vol. 45, no. 4, pp. 46:1–46:25, 08 2013.
  - [10] H. Kikuchi, D. Kagawa, **A. Basu**, K. Ishii, M. Terada, and S. Hongo, “Scalable Privacy-Preserving Data Mining with Asynchronously Partitioned Datasets,” *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, vol. 96, no. 1, pp. 111–120, 01 2013.
  - [11] **A. Basu**, J. Vaidya, H. Kikuchi, T. Dimitrakos, and S. K. Nair, “Privacy preserving collaborative filtering for SaaS enabling PaaS clouds,” *Journal of Cloud Computing: Advances, Systems and Applications*, vol. 1, no. 8, 2012.
  - [12] C. D. Jensen, N. Dragoni, **A. Basu**, and C. Mancini, “Frontiers in trust management,” *Journal of Internet Services and Information Security (JISIS)*, vol. 1, no. 4, pp. 1–4, 11 2011.
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- [15] S. Naicken, B. Livingston, **A. Basu**, S. Rodhetbhai, I. Wakeman, and D. Chalmers, “The state of peer-to-peer simulators and simulations,” *ACM SIGCOMM Computer Communication Review*, vol. 37, no. 2, pp. 95–98, 2007.
- [16] F. Liarokapis, N. Mourkoussis, M. White, J. Darcy, M. Sifniotis, P. Petridis, **A. Basu**, and P. F. Lister, “Web3d and augmented reality to support engineering education,” *World Transactions on Engineering and Technology Education*, vol. 3, no. 1, pp. 11–14, 2004.

### Conferences, workshops and symposiums

- [1] 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>*).
- [2] 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>*).
- [3] **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.
- [4] **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.
- [5] 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.
- [6] 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.
- [7] 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.

- [8] 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.
- [9] 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.
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- [13] 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.
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## Theses and technical reports

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