

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. A total of **79** publications listed here does not include invited talks and patents. The bibliography style in use is L^AT_EX 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] 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.
- [2] 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.

- [3] 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.
- [4] **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] 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.
- [10] **A. Basu**, J. Vaidya, and H. Kikuchi, “Efficient privacy-preserving collaborative filtering based on the weighted Slope One predictor,” *Journal of Internet Services and Information Security*, vol. 1, no. 4, 2011.
- [11] J. Stanier, S. Naicken, **A. Basu**, J. Li, and I. Wakeman, “Can We Use Trust in Online Dating?” *Journal of Wireless Mobile Networks, Ubiquitous Computing, and Dependable Applications*, vol. 1, no. 4, pp. 50–61, 2010.
- [12] 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.
- [13] 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, work-shops and symposiums

- [1] 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.
- [2] 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.
- [3] 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.
- [4] 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.
- [5] **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.
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- [7] 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.
- [8] **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] **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.
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- [14] 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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- [25] J. C. Corena, **A. Basu**, Y. Nakano, S. Kiyomoto, and Y. Miyake, “Data storage on the cloud under user control,” in *Poster in the IEEE Cloudcom*, Singapore, 2014.
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- [40] S. Marsh, **A. Basu**, and N. Dwyer, “Rendering unto Cæsar the Things that are Cæsar’s: Complex Trust Models and Human Understanding,” in *Proceedings of the IFIP WG 11.11 International Conference on Trust Management (IFIPTM)*, Surat, India, 2012.
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Theses and technical reports

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