

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 **75** 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. Bicaçci, “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**, 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.
- [2] 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.
- [3] **A. Basu**, A. Monreale, R. Trasarti, J. C. Corena, F. Giannotti, D. Pedreschi, S. Kiyomoto, Y. Miyake, and T. Yanagihara, “A risk model for

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 - [5] **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.
 - [6] 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.
 - [7] **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.
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 - [9] **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.
 - [10] 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.
 - [11] 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.
 - [12] 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] 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.
- [2] **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.
- [3] 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.
- [4] 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.
- [5] **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.
- [6] 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.
- [7] **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.
- [8] 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.

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- [10] **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.
- [11] 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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- [14] **A. Basu**, S. Marsh, M. S. Rahman, and S. Kiyomoto, “A model for personalised perception of policies,” in *Proceedings of the IFIP WG 11.11 International Conference on Trust Management (IFIPTM)*, Darmstadt, Germany, 2016, pp. 52–62.
- [15] M. S. Rahman, **A. Basu**, and S. Kiyomoto, “Privacy-friendly secure bidding scheme for demand response in smart grid,” in *Proceedings of the IEEE First International Smart Cities Conference (ISC2)*, Guadalajara, Mexico, 2015, pp. 1–6.
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- [21] **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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- [26] **A. Basu**, A. Monreale, J. C. Corena, F. Giannotti, D. Pedreschi, S. Kiyomoto, Y. Miyake, T. Yanagihara, and R. Trasarti, “A privacy risk model for trajectory data,” in *Proceedings of the IFIP WG 11.11 International Conference on Trust Management (IFIPTM)*, Singapore, 2014.
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Theses or technical reports

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