

## 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 **73** 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.

### Books or 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

- [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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- [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] 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.
  - [8] 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.
  - [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 or workshops

- [1] 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.
- [2] 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.
- [3] **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.
- [4] 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.
- [5] **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.
- [6] 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.
- [7] 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.
- [8] **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.
- [9] 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.

- [10] **A. Basu**, S. Kiyomoto, J. Vaidya, and S. Marsh, “Prefrank: Quantification and aggregation of subjective user preferences,” in *Proceedings of the Trustcom/BigDataSE/ISPA*. Tianjin, China: IEEE, 2016, pp. 7–13.
- [11] 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 (SECRYPT)*, Lisbon, Portugal, 2016, pp. 411–418.
- [12] **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.
- [13] 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.
- [14] —, “Secure and private bidding protocol for incentive-based demand-response system of smart grid,” in *Proceedings of the International Symposium on Stabilization, Safety, and Security of Distributed Systems: SSS*, vol. 9212. Edmonton, AB, Canada: Springer, 2015, p. 269.
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- [18] J. Vaidya, I. Yakut, and **A. Basu**, “Efficient Integrity Verification for Outsourced Collaborative Filtering,” in *Proceedings of the IEEE International Conference on Data Mining (ICDM)*, Shenzhen, China, 2014.
- [19] **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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- [25] **A. Basu**, J. C. Corena, S. Kiyomoto, J. Vaidya, S. Marsh, and Y. Miyake, “PrefRank: fair aggregation of subjective user preferences,” in *Poster in the ACM Symposium on Applied Computing (SAC) RS track*, Gyeongju, Korea, 2014.
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- [27] 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.
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- [32] N. Dwyer, **A. Basu**, and S. Marsh, “Reflections on measuring the trust empowerment potential of a digital environment,” in *Proceedings of the IFIP WG11.11 International Conference on Trust Management (IFIPTM)*, Malaga, Spain, 2013.
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- [35] 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 or technical reports

- [1] **A. Basu**, “A Reputation Framework for Behavioural History,” Ph.D. dissertation, University of Sussex, UK, 02 2010.
- [2] **A. Basu**, “ARCOLite – a visualisation system for viewing museum artefacts,” University of Sussex, UK, Bachelor of Engineering thesis, 04 2004.