

List of Publications

SHANTANU DAS

Books or Book Chapter:

- [1] Shantanu Das, “Graph Explorations with Mobile Agents”, In Book: Distributed Computing By Mobile Entities, Chapter 16, Springer, 2019.
https://doi.org/10.1007/978-3-030-11072-7_16
- [2] Shantanu Das and Nicola Santoro, “Moving and Computing Models: Agents”, In Book: Distributed Computing By Mobile Entities, Chapter 2, Springer, 2019.
https://doi.org/10.1007/978-3-030-11072-7_2
- [3] Shantanu Das and Sébastien Tixeuil, “SIROCCO 2017: Post-proceedings”, LNCS 10641, 2017.
<https://doi.org/10.1007/978-3-319-72050-0>
- [4] Jérémie Chalopin, Shantanu Das, and Peter Widmayer, “Deterministic Rendezvous in Arbitrary Graphs: Overcoming Anonymity, Failures and Uncertainty”, Search Theory: A Game Theoretic Perspective, Springer, Chapter 12, pp.175, 2013. <https://dx.doi.org/10.1007/978-1-4614-6825-7>

Peer-reviewed Scientific Journals:

- [5] Shantanu Das, Riccardo Focardi, Flaminia Luccio, Euripides Markou, and Marco Squarcina, “Gathering of Robots in a Ring with Mobile Faults”, Theoretical Computer Science, Vol. 764, pages 42–60, 2019.
<https://doi.org/10.1016/j.tcs.2018.05.002>
- [6] Shantanu Das, Dariusz Dereniowski, and Christina Karousatou, “Collaborative Exploration of Trees by Energy-Constrained Mobile Robots”, Theory of Computing Systems, Vol. 62, Issue 5, pages 1223–1240, 2018. <https://doi.org/10.1007/s00224-017-9816-3>
- [7] Andreas Bärtschi, Jérémie Chalopin, Shantanu Das, Yann Disser, Barbara Geissmann, Daniel Graf, Arnaud Labourel and Matus Mihalák. “Collaborative Delivery with Energy-Constrained Mobile Robots”. Theoretical Computer Science, 2017 (In Press). <https://doi.org/10.1016/j.tcs.2017.04.018>
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- [10] Shantanu Das, Paola Flocchini, Nicola Santoro, and Masafumi Yamashita “Forming sequences of geometric patterns with oblivious mobile robots”, Distributed Computing (Springer), Vol. 28(2), pages 131-145, 2015. <http://dx.doi.org/10.1007/s00446-014-0220-9>
- [11] Jérémie Chalopin, Shantanu Das, Arnaud Labourel and Euripides Markou, “Tight bounds for black hole search with scattered agents in synchronous rings”, Theoretical Computer Science, Vol. 509, pages 70-85, 2013. <https://doi.org/10.1016/j.tcs.2013.02.010>

- [12] Jérémie Chalopin, Shantanu Das, Yann Disser, Matus Mihalák, and Peter Widmayer, “Simple Agents Learn to Find Their Way: An Introduction on Mapping Polygons”, *Discrete Applied Mathematics*, 161(10-11), pages 1287–1307, 2013. <http://dx.doi.org/10.1016/j.dam.2013.01.006>
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International Conference Proceedings:

- [22] Jérémie Chalopin, Shantanu Das, Yann Disser, Arnaud Labourel and Matus Mihalák, “Collaborative Delivery on a Fixed Path with Homogeneous Energy-Constrained Robots”, In *Proc. 26th International Colloquium on Structural Information and Communication Complexity (SIROCCO)*, 2019.
- [23] Andreas Bärtschi, Evangelos Bampas, Jérémie Chalopin, Shantanu Das, Christina Karousatou and Matus Mihalák, “Near-gathering of energy-constrained mobile agents” In *Proc. 26th International Colloquium on Structural Information and Communication Complexity (SIROCCO)*, 2019.
- [24] Shantanu Das, Giuseppe Antonio Di Luna and Leszek Gasieniec, “Patrolling on Dynamic Ring Networks”, In *Proc. Int. Conf. on Current Trends in Theory and Practice of Computer Science (SOFSEM)*, pages 150-163, 2019.
- [25] Shantanu Das, Nikos Giachoudis, Flaminia Luccio and Euripides Markou, “Gathering of Robots in a Grid with Mobile Faults”, In *Proc. Int. Conf. on Current Trends in Theory and Practice of Computer Science (SOFSEM)*, pages 164-178, 2019.

- [26] Shantanu Das, Giuseppe A. Di Luna, Linda Pagli, and Giuseppe Prencipe, “Compacting and Grouping Mobile Agents on Dynamic Rings” In Proc. 15th Annual Conference on Theory and Applications of Models of Computation (TAMC), pages 114-133, 2019.
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Invited Articles:

- [68] Shantanu Das, “Mobile Agents in Distributed Computing: Network Exploration”, Bulletin of the European Association for Theoretical Computer Science (EATCS), No. 109, pages 54–69, February 2013.