

List of Publications

SHANTANU DAS

Books or Book Chapter:

- [1] Shantanu Das and Sébastien Tixeuil, “SIROCCO 2017: Post-proceedings”, LNCS 10641, 2017. <https://doi.org/10.1007/978-3-319-72050-0>
- [2] 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:

- [3] Shantanu Das, Riccardo Focardi, Flaminia Luccio, Euripides Markou, and Marco Squarcina, “Gathering of Robots in a Ring with Mobile Faults”, Theoretical Computer Science, 2018. <https://doi.org/10.1016/j.tcs.2018.05.002>
- [4] 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 12231240, 2018. <https://doi.org/10.1007/s00224-017-9816-3>
- [5] Andreas Bärttschi, 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. <https://doi.org/10.1016/j.tcs.2017.04.018>
- [6] Shantanu Das, Paola Flocchini, Giuseppe Prencipe, Nicola Santoro, Masafumi Yamashita, “Autonomous mobile robots with lights”, Theoretical Computer Science, Vol. 609, pages 171-184, 2016. <https://doi.org/10.1016/j.tcs.2015.09.018>
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- [8] 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>
- [9] 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>
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- [12] Jérémie Chalopin, Shantanu Das, Yann Disser, Matus Mihalak, and Peter Widmayer, “Mapping Simple Polygons: How Robots Benefit from Looking Back”, *Algorithmica*, 65(1), pages 43-59, 2013. <http://dx.doi.org/10.1007/s00453-011-9572-8>
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International Conference Proceedings:

- [20] Evangelos Bampas, Shantanu Das, Dariusz Dereniowski and Christina Karousatou. “Collaborative delivery by energy-sharing low-power mobile robots”. In *Proc. 13th International Symposium on Algorithms and Experiments for Wireless Networks (ALGOSENSORS)*, 2017.
- [21] Andreas Bärtschi, Jérémie Chalopin, Shantanu Das, Yann Disser, Daniel Graf, Jan Hackfeld and Paolo Penna. “Energy-efficient Delivery by Heterogenous Mobile Agents”. In *Proc. 34th International Symposium on Theoretical Aspects of Computer Science (STACS)*, pages 10:1-10:14, 2017.
- [22] Shantanu Das, Giuseppe Antonio Di Luna, Paola Flocchini, Nicola Santoro, Giovanni Viglietta. “Mediated Population Protocols: Leader Election and Applications”, In *Proc. 14th Annual Conference on Theory and Applications of Models of Computation (TAMC)*, pages 172-186, 2017.
- [23] Piotr Borowiecki, Shantanu Das, Dariusz Dereniowski and Lukasz Kuszner. “Distributed Evacuation in Graphs with Multiple Exits” In *Proc. 23rd International Colloquium on Structural Information and Communication Complexity (SIROCCO)*, LNCS 9988, pages 228-241, 2016.
- [24] Andreas Bärtschi, Jérémie Chalopin, Shantanu Das, Yann Disser, Barbara Geissmann, Daniel Graf, Arnaud Labourel and Matus Mihalák. “Collaborative Delivery with Energy-Constrained Mobile Robots”. In *Proc. 23rd International Colloquium on Structural Information and Communication Complexity (SIROCCO)*, LNCS 9988, pages 258-274, 2016.

- [25] Shantanu Das, Riccardo Focardi, Flaminia Luccio, Euripides Markou, Davide Moro and Marco Squarcina, “Gathering of Robots in a Ring with Mobile Faults”, In Proc. 17th Italian Conference on Theoretical Computer Science (ICTCS), 2016.
- [26] Jérémie Chalopin, Shantanu Das, Pawel Gawrychowski, Adrian Kosowski, Arnaud Labourel and Przemyslaw Uznanski, “Limit behavior of the Multi-Agent Rotor-Router System”, In Proc. 29th International Symposium on Distributed Computing (DISC), LNCS 9363, pages 123-139, 2015.
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Invited Articles:

- [61] 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.