

# Curriculum Vitae

## SHANTANU DAS

Associate Professor,  
Laboratoire d'Informatique et Systemes (LIS),  
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### Education:

Ph.D. Computer Science, University of Ottawa / Carleton University, Canada, 2007.

Thesis: *Distributed Computing with Mobile Agents: Solving Rendezvous and Related Problems*

### Academic Experience:

- **Jan. 2013 to Present** : Maitre de Conferences (Associate Professor) at the CNRS Laboratory of Computer Science and Systems (LIS), Aix-Marseille University, France.
- **Oct. 2018 to Jan 2019** : Visiting Scientist at Gran Sasso Science Institute, L'Aquila, Italy.
- **Oct. 2013 to Dec. 2012** : Postdoctoral Researcher jointly at Ben-Gurion University of the Negev, and the Technion-Israel Institute of Technology, Israel.
- **Jan. 2010 to Aug. 2011** : Postdoctoral Researcher at Laboratoire d'Informatique Fondamentale (LIF), Marseille, France.
- **Mar. 2008 to Dec. 2009** : Postdoctoral Research Associate at the Swiss Federal Institute of Technology (ETH), Zurich, Switzerland.

### Recent Projects:

- Principal Investigator for French-Swiss research collaboration project ANCOR : 2015–2018.
- Research Project ANR-MACARON (jointly with colleagues from the LIS laboratory): 2014–2017.
- Research Project PARTITION funded by Swiss National Science Foundation (SNF), Switzerland, : 2009–2011.

### Awards:

- *Chaire d'excellence* in research awarded by the National Centre for Scientific Research (CNRS) France, 2013–2017.
- Postdoctoral Fellowship from the Technion - Israel Institute of Technology, for research in Distributed Computing, 2011–2012.
- Postdoctoral research grant from University of Provence, France 2010.
- Ontario Graduate Scholarship in Science and Technology, Canada: 2006–2007.
- Graduate Research Scholarship (OGS) from Ontario Government, Canada: 2005–2006.
- University of Ottawa Excellence Scholarship: 2005–2007.

## Research Interests

- Design and Analysis of Distributed Algorithms,
- Combinatorial Optimization and Graph Algorithms
- Distributed Robotics and Programmable matter
- Fault tolerance in Networks and Distributed systems
- Algorithms for Sensor Networks and Dynamic Networks

## Scientific Activities:

- Program Committee Chair for Track-B of the International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS), Tokyo 2018.
- Program Committee co-Chair and Organizing Chair for International Colloquium on Structural Information and Communication Complexity (SIROCCO) in Porquerolles 2017.
- Program Committee member for international conferences: ALGOSENSORS 2019, 2013; COCOA 2013; FUN 2014; ICDCN 2016; OPODIS 2023, 2016; SIROCCO 2024, 2021, 2017, 2009; SOFSEM 2021;

## Publications:

Total: 75 articles

Including: 1 edited book, 3 invited book chapters,

20 articles in peer-reviewed scientific journals, and

50 publications in peer-reviewed proceedings of international conferences.

H-Index = 26 / Total Citations = 1866 (684 in past 5 years)

Full list: <http://pageperso.lif.univ-mrs.fr/~shantanu.das/en/PublicationsDAS.pdf>

## Recent significant publications:

1. Shantanu Das, Dariusz Dereniowski, and Christina Karousatou, “Collaborative Exploration of Trees by Energy-Constrained Mobile Robots”, *Theory of Computing Systems*, 62(5):1223–1240, 2018.
2. Andreas Bärtzchi, 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.
3. Shantanu Das, Paola Flocchini, Giuseppe Prencipe, Nicola Santoro, Masafumi Yamashita, “Autonomous mobile robots with lights”, *Theoretical Computer Science*, 609: 171-184, 2016.
4. Jérémie Chalopin, Shantanu Das, Yann Disser, Matus Mihalak, and Peter Widmayer, “Mapping simple polygons: The power of telling convex from reflex”, *ACM Transactions on Algorithms*, Vol. 11(4):33, 2015.
5. 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.