

ALGOSENSORS 2009 – PROGRAM

RHODES, GREECE, JULY 10-11, 2009

FRIDAY, 10 JULY 2009

12:50 – 13:00 Algosensors Welcome

13:00 – 14:00 Algosensors Invited Talk I (Session chair: Shlomi Dolev)

Actuator Nets: Folding, reconfiguring, and deploying sensors
Erik Demaine

14:00 – 14:50 Session I

14:00-14:25 *Sensor Field: A computational model*
Carme Alvarez, Amalia Duch, Joaquim Gabarro and Maria Serna

14:25-14:50 *Near-Optimal Radio Use For Wireless Network Synchronization*
Milan Bradonjic, Eddie Kohler and Rafail Ostrovsky

14:50 – 15:10 Break

15:10 – 16:00 Session II (Session chair: Jan Van Leeuwen)

15:10-15:35 *Approximating Barrier Resilience in Wireless Sensor Networks*
David Kirkpatrick and Sergey Bereg

15:35-16:00 *Improved Approximation Algorithms for Maximum Lifetime Problems in Wireless Networks*
Zeev Nutov and Michael Segal

16:00 – 16:20 Coffee Break

16:20- 16:55 Session III (Session chair: Giuseppe Persiano)

16:20-16:55 *On Active Attacks on Sensor Network Key Distribution Schemes*
Stefan Dziembowski, Alessandro Mei and Alessandro Panconesi

16:55-17:20 *Securing Random Key Predistribution against Node Captures*
Jacek Cichon, Jaroslaw Grzaslewicz and Miroslaw Kutylowski

17:20-17:45 *Revisiting DoS Attacks and Privacy in RFID-Enabled Networks*
Paolo D'Arco, Alessandra Scafuro and Ivan Visconti

SATURDAY 11 JULY 2009

09:00 – 10:00 Algosensors Invited Talk II (Session chair: Paul Spirakis)

*The Power and Limitations of Simple Algorithms:
A partial case study of Greedy Mechanism Design for combinatorial auctions*
Allan Borodin

10:00 – 10:50 Session IV

10:00-10:25 *Link Reversal: How to play better to work less*
Bernadette Charron-Bost, Jennifer Welch and Josef Widder

10:25-10:50 *Early Obstacle Detection and Avoidance for All to All Traffic Pattern in Wireless Sensor Networks*
Florian Huc, Aubin Jarry, Pierre Leone, Jose Rolim, Luminita moraru and Sotiris Nikolettseas

10:50 – 11:10 Coffee Break

11:10 – 12:25 Session V (Session chair: Sotiris Nikolettseas)

- 11:10-11:35 *A Note on Uniform Power Connectivity in the SINR Model*
Chen Avin, Zvi Lotker, Francesco Pasquale and Yvonne Anne Pignolet
- 11:35-12:00 *Locating a Black Hole without the Knowledge of Incoming Link*
Peter Glaus
- 12:00-12:25 *Energy Efficient Alert in Single-Hop Networks of Extremely Weak Devices*
Marek Klonowski, Mirosław Kutylowski and Jan Zatoptionski

12:25 – 12:45 Brief Announcements Session VI

- 12:25-12:35 *Brief Announcement: Universal Data Aggregation Trees for Sensor Networks in Low Doubling Metrics*
Srivathsan Srinivasagopalan, Costas Busch and Sitharama Iyengar
- 12:35-12:45 *Brief Announcement: MOGRIBA: Multi-Objective Geographical Routing for Biomedical Applications of Wireless Sensor Networks*
Djamel Djenouri and Ilangko Balasingham

12:45 – 13:25 Lunch

13:25 – 15:05 Session VII (Session chair: Jose Rolim)

- 13:25-13:50 *Routing on Delay Tolerant Sensor Networks*
Michael Keane, Evangelos Kranakis, Danny Krizanc and Lata Narayanan
- 13:50-14:15 *Better Face Routing Protocols*
Xiaoyang Guan
- 14:15-14:40 *Building a Communication Bridge with Mobile Hubs*
Onur Tekdas, Yokesh Kumar, Volkan Isler and Ravi Janardan
- 14:40-15:05 *Compressing Kinetic Data From Sensor Networks*
Sorelle Friedler and David Mount

15:05 – 15:25 Coffee Break

15:25 – 15:50 Session VIII (Session chair: Evangelos Kranakis)

- 15:25-15:50 *Relocation Analysis of Stabilizing MAC Algorithms for Large-Scale Mobile Ad Hoc Networks*
Pierre Leone, Marina Papatrifiantafilou and Elad M. Schiller
- 15:50-16:15 *Deterministic Collision Free Communication Despite Continuous Motion*
Saira Viqar and Jennifer Welch
- 16:15-16:40 *Self-stabilizing Deterministic Gathering*
Yoann Dieudonne and Franck Petit

16:40 – 17:00 Coffee Break

17:00 – 17:50 Session IX (Session chair: Darek Kowalski)

- 17:00-17:25 *Gossiping in Jail*
Avery Miller
- 17:25-17:50 *Complexity and Approximation of a Geometric Local Robot Assignment Problem*
Olaf Bonorden, Bastian Degener, Barbara Kempkes and Peter Pietrzyk

17:50 – 18:10 End of ALGOSENSORS 2009

Plans for the future of Algosensors and goodbye

End of ALGOSENSORS 2009