

Research Meeting and School on Distributed Computing by Mobile Robots



Moving and
Computing

5-9 June, 2017
La Maddalena, Italia



Information

[Home](#)

[Committees](#)

[Participants](#)

[Registration](#)

[Program](#)

[Talks](#)

[Venue](#)

[MAC History](#)

Tentative Program

Sunday, 4th June

21:00 **Welcome Reception (Hotel Le Nereidi)**

Monday, 5th June

8:45 **Welcome**

9:00-12:45 Tutorial Lectures: Robots (I)

9:00-9:45 **P. Flocchini**
Look-Compute-Move Robots: Models (slides Part 1) (slides Part 2)

10:00-10:45 **G. Prencipe**
Arbitrary Pattern Formation (slides)

11:00-11:45 **Y. Yamauchi**
Symmetry and Pattern Formation in 2D and 3D (slides)

12:00-12:45 **K. Wada**
Computing by Luminous Robots (abstract: [txt](#) [pdf](#)) (slides)

13:00-14:30 **LUNCH**

15:00-17:45 Tutorial Lectures: Agents (I)

15:00-15:45 **E. Kranakis**
Mobility and Communication in Search, Evacuation, and Patrolling (abstract: [txt](#) [pdf](#)) (slides)

16:00-16:45 **N. Santoro**
Mobile Agents in Graphs: Models (slides)

17:00-17:45 **S. Das**
Explorations and Elections (slides)

Tuesday, 6th June

9:00-12:45 Tutorial Lectures: Agents (II)

9:00-9:45 **S. Dobrev**
Exploring Dangerous Graphs (slides)

10:00-10:45 **D. Ilcinkas**
Graph Exploration by Oblivious Agents (slides)

11:00-11:45 **A. Navarra**
Gathering of Oblivious Agents in Graphs (abstract: [txt](#) [pdf](#)) (slides)

12:30-14:30 **LUNCH**

14:30-16:15 Tutorial Lectures: Robots (II)

14:30-15:15 **F. Meyer auf der Heide**
Continuous Strategies for Swarm Robotics (abstract: [txt](#) [pdf](#)) (slides)

15:30-16:15 **S. Fekete**
Algorithms for Robot Navigation: From Optimizing Individual Robots to Particle Swarms (abstract: [txt](#) [pdf](#)) (slides)

20:00 **SOCIAL DINNER**

Wednesday, 7th June

9:00-11:00 Tutorial Lectures: Programmable Matter

9:00-10:00 **T. Pavlic**
Living Laboratories and Natural Histories for Moving and Computing (abstract: [txt](#) [pdf](#)) (slides)

10:15-11:00 **C. Scheideler**
Amoebots and Beyond: Models and Approaches for Programmable Matter (abstract: [txt](#) [pdf](#)) (slides)

11:15-12:45 Research Announcements and Open Problems

A. Naudin
Title (slides)

K. Mukhopadhyaya
Title (slides)

13:00-14:30 LUNCH

Thursday, 8th June

9:00-12:45 Research Announcements and Open Problems

C. Schindelhauer
Anchor-Free Localization (slides)

G. Di Luna
Title (slides)

E. Bampas
Collaborative delivery by robots that can share energy (slides)

S. Tixeuil
Title (slides)

C. Ortolf
Collaborative Graph Exploration (slides)

G. Di Stefano
**Embedded Pattern Formation without Orientation:
Generalizations and Open Problems** (slides)

R. Kralovic
About an old exploration problem (slides)

S. Dobrev
Title (slides)

13:00-14:00 LUNCH

14:00-16:00 Research Announcements and Open Problems

M. Potop-Butucaru
Title (slides)

J. Czyzowicz
Title (slides)

C. Karousatov
Title (slides)

R. Martin
Fast Two-Robot Disk Evacuation with Wireless Communication
(slides)

E. Markov
Title (slides)

Friday, 9th June

9:00-12:00 Conclusive Discussions

M. Potop-Butucaru
Theory vs Practice (slides)

S. Fekete
Working with Practitioners: Lessons Learned (slides)

T. Pavlic
(slides)

12:00-13:30 LUNCH