Moving and Computing 2022
Pisa – 19-22 September 2022

PROGRAM

Monday, 19

8:30am Registration
8:50am Welcome

Scheduled Talks

9:00am-9:30am Jean-Lou De Carufel
Pursuit-Evasion in Graphs: Zombies, Lazy Zombies and a Survivor

9:30am-10:00am Alfredo Navarra
Moblot - Molecular Oblivious Robots

—---------------Coffee Break—-------------

10:30am-11:00am David Ilcinkas
Title: Certifying in Coq results on mobile agents: a user perspective

11:00am-11:30am Xavier Defago
Verification and Synthesis of Rendezvous Algorithms for Luminous Robots

12:00am-12:30am Flaminia Luccio
Graph Exploration with Deadlines
—---------------Lunch—-------------

Unscheduled Talks, Open Problem, and Research
2:30pm-5:30pm **(Coffee Break at 3:30pm)**
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Okumura Keisuke
Building Blocks of Swarm Automation

Tuesday, 20

Scheduled Talks
9:00am-9:30am Toshimitsu Masuzawa
Gathering Despite Defected View

9:30am-10:00am Koichi Wada
Energy-constrained mobile robots and their computational power

—----------------Coffee Break—--------------

10:30am-11:00am Quentin Bramas
Solving the rendezvous problem with persistent unit-distance.

11:00am-11:30am Kostantinos Georgiou
Evacuation from a Disk for Robots with Asymmetric Communication

11:30am-12:00pm Giuseppe A. Di Luna
Black Hole Search in Dynamic Rings

—------Lunch on your own, and free time for visiting Pisa —-----

Free Research any time

8:00pm **Banquet**

Wednesday, 21

Scheduled Talks
9:00am-9:30am Anissa Lamani
Asynchronous Gathering in a Torus

9:30am-10:00am Stephane Devismes

Exploring an Infinite Grid using Disoriented Robots

—---------------Coffee Break—-------------

11:00am-11:30am Giovanni Viglietta
Optimal Computation in Anonymous Dynamic Networks

11:30am-12:00am Nicolas Nisse
Minimum lethal sets in grids and tori under 3-neighbour bootstrap percolation

—---------------Lunch—-------------

Unscheduled Talks, Open Problem, and Research
2:30pm-5:30pm **(Coffee Break at 3:30pm)**

Kamei Sayaka
An Asynchronous Maximum Independent Set Algorithm by Myopic Robots

Yonghwan Kim
Computational Power of Pairbots

Jannik Castenow
An Universal Approach to Gathering of Disoriented Robots with Limited Visibility

Junga Nakamura
Gathering Despite a Linear Number of Weakly Byzantine Agents

Thursday, 22

Scheduled Talks

9:30am-10:00am Christian Scheideler
Towards Rapidly Transforming Programmable Matter

—---------------Coffee Break—-------------

10:30am-11:00am Seki Shinnosuke
Single-stranded architectures for RNA co-transcriptional computing

11:00am-11:30am Ryuichi Matsuoka
On Algorithmic Self-Assembly of Squares by Co-transcriptional Folding

—---------------Lunch—-------------

Unscheduled Talks, Open Problem, and Research
2:00pm-4:00pm
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Euripides Bampas
Treasure Hunt with Evaporated Pheromones

Debasish Pattanayak
Dispersion of Mobile Robots on Graphs

Bibhuti Das
k-Circle Formaiton by Oblivius Mobile Robots

Abhinav Chakraborty
Optimal Gathering over Weber Meeting Nodes in Infinite Grids

Deepanwita Das
Grid Exploraiton with Minimum Repetitions

END OF MAC 2022