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Call for Papers

The First Workshop on Self-organization in Swarm of Robots: from Molecular Robots to Mobile Agents

To be held in conjunction with the 33rd IEEE Symposium on  
Reliable Distributed Systems (SRDS 2014), October 6-9, 2014

Workshop date: October 6, 2014  
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The goal of the workshop on Self-organization in Swarm of Robots: from Molecular Robots to Mobile Agents is to gather researchers and students in the field of distributed computing, control theory, molecular robotics, and system biology, and enhance the connection between these fields.

As technologies for electrical, biological, and chemical devices progress, new notions of computation and computing devices are emerging, for example, computation by swarms of robots, autonomy in mobile agents, dynamics in populations, self-assembly like DNA tiling, and chemical reaction circuits. These fields share the concept of self-organization of swarm of robots in common.

The workshop aims at sharing new advances and work in progress, and discussing future directions to foster novel collaborations.

SCOPE:

Topics covered by the workshop include, but are not limited to:

- Mobile robots/agents
- Population protocols
- Control theory for swarm of robots
- Self-assembling systems
- Chemical reaction systems
- System biology

IMPORTANT DATES:

- Paper submission deadline: June 25, 2014
- Author notification: July 10, 2014
- Camera-ready submission: July 20, 2014
- Conference: October 6, 2014

SUBMISSION:

Submissions must be written in English and must follow the IEEE two-column format. They must be submitted through EasyChair. Two types of submissions will be considered: regular and work-in-progress. Regular submissions must contain original unpublished results, and should not exceed 10 pages. We also consider original surveys as regular submissions. Work-in-progress papers and position papers should be no longer than 4 pages.

PROCEEDINGS:

All submitted papers will be peer-reviewed by the PC members, and accepted papers will appear in the symposium proceedings, which will be published by the IEEE Computer Society.

WORKSHOP CHAIR:

Yukiko Yamauchi (Kyushu University, Japan)

PROGRAM COMMITTEE:

Shun-ichi Azuma (Kyoto University, Japan)  
Doina Bein (Pennsylvania State University, U.S.A.)  
Masaki Inoue (Keio University, Japan)  
Taisuke Izumi (Nagoya Institute of Technology, Japan)  
Sayaka Kamei (Hiroshima University, Japan)  
Takashi Nakakuki (Kyushu Institute of Technology, Japan)  
Fukuhito Ooshita (Osaka University, Japan)  
Kazuya Sato (Saga University, Japan)  
Giovanni Viglietta (University of Ottawa, Canada)  
Yukiko Yamauchi (Kyushu University, Japan)

INVITED SPEAKERS:

Satoshi Kobayashi (The University of Electro-Communications, Japan)  
Yasuhiro Suzuki (Nagoya University, Japan)

MORE INFORMATION:

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