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Expertise : Theory of distributed computing

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Reserch Theme in This Project :

Distributed control of swarm of molecular robots

Main Research Results, Publications :

Nao Fujinaga, Yukiko Yamauchi, Hirotaka Ono, Shuji Kijima, and Masafumi Yamashita, Pattern Formation by Oblivious Asynchronous Mobile Robots. *SIAM J. Comput.* 44(3): 740–785 (2015).

Shantanu Das, Paola Flocchini, Nicola Santoro, and Masafumi Yamashita, Forming sequences of geometric patterns with oblivious mobile robots. *Distributed Computing* 28(2), 131–145 (2015).

Arnaud Casteigts, Paola Flocchini, Emmanuel Godard, Nicola Santoro, and Masafumi Yamashita, On the expressivity of time-varying graphs. *Theor. Comput. Sci.* 590: 27–37 (2015).

Dariusz Dereniowski, Hirotaka Ono, Ichiro Suzuki, Lukasz Wrona, Masafumi Yamashita, and Pawel Zylinski, The searchlight problem for road networks. *Theor. Comput. Sci.* 591: 28–59 (2015).

Ryu Mizoguchi, Hirotaka Ono, Shuji Kijima, and Masafumi Yamashita, On space complexity of self-stabilizing leader election in mediated population protocol. *Distributed Computing* 25(6): 451–460 (2012).

Masafumi Yamashita, and Ichiro Suzuki, Characterizing geometric patterns formable by oblivious anonymous mobile robots. *Theor. Comput. Sci.* 411(26–28): 2433–2453 (2010).

Recent Activities (hobbies, etc.): Hot springs