ΔΙΑΛΕΞΗ

" How autonomous agents can gather without persistent memory or guides and under an adversarial scheduler? "

Euripides Markou

Department of Computer Science and Biomedical Informatics at the University of Thessaly

Περίληψη – Abstract

We discuss the following problem. A number of anonymous software agents which autonomously operate in an anonymous and un-oriented ring network, wish to gather at some node (not predetermined) of the network. The agents do not have persistent memory, cannot exchange messages and their operation can be asynchronously interrupted for a finite but unpredictable time. We study how the agents can gather for initial configurations where this is possible and under any asynchronous interruptions. If the time permits we will survey some more results on the gathering problem of autonomous agents in the framework of distributed computing.

Short Bio
Euripides Markou received his B.Sc. (in Physics) from the University of Ioannina and his Ph.D. (in Theoretical Computer Science) from the National Technical University of Athens. He has been a postdoctoral researcher at the Universite du Quebec en Outaouais, Gatineau, Canada, at the National and Kapodistrian University of Athens, at the Laboratoire Bordelais de Recherche en Informatique (LaBRI), Bordeaux, France and at McMaster University, Hamilton, Canada, before joining the Department of Computer Science and Biomedical Informatics at the University of Thessaly, where he now holds an associate professor position. His research interests include the design of algorithms and the study of the computational complexity for problems especially in the areas of distributed computing, algorithmic game theory, computational geometry and bioinformatics.

Πέμπτη 22/12/2022 – 11:30
Αίθουσα Σεμιναρίων
ΤΜΗΥΠ