UNIVERSITY OF THESSALY

Electrical & Computer Engineering department

Distributed and Network Algorithmics lab Seminar Series

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Cooperation and teamwork in the advent of artificial intelligence: Is there an elephant in the room?

November 30, 2021
12:00 – 13:00 p.m. (Greece)

The promise of artificial intelligence and robotics is to conceive technological artifacts that replicate, and even surpass, all human capabilities. This includes distinct capabilities like locomotion, perception, speech, and learning, but must also include social capabilities like cooperation and teamwork. Despite the advances in artificial intelligence, it is surprising that the cooperation and teamwork capabilities of current robots fall far short of even very simple animals. So what are we missing? I will portray my views on the importance of understanding and replicating the cognitive abilities required to cooperate in a society that includes many different intelligent autonomous agents. How can a group of intelligent agents working together be able to solve problems that are beyond their individual capabilities? This talk will identify and explore some of the challenges and share experiences in enabling cooperation in heterogeneous human-robot-animal teams.

Eduardo Feo-Flushing is a Visiting Assistant Professor at Carnegie Mellon University in Qatar. He completed his Ph.D. in 2017 in the Swiss AI Lab (IDSIA), affiliated to the University of Lugano in Switzerland. He has worked in several interdisciplinary academic and industrial research projects in the areas of multi-robot systems, robotics, and artificial intelligence. He is interested in all aspects of decision-making in teams of mobile, autonomous, and intelligent agents.

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