

סמינר - SEMINAR

הנדך מוזמנת להרצאה סמינריונית של הפקולטה להנדסת מכונות, שתקיים ביום ב' 8.05.2017 (יב' באייר, תשע"ז), בבניין דן קאהן, אודיטוריום 1, 14:30.

תרצה:

Dr. Stefania Pellegrinelli

Institute of Industrial Technologies and Automation
National Research Council of Italy

על הנושא:

Robot motion planning for multi-agent collaboration in shared workspace

The seminar will be given in English

להלן תקציר ההרצאה:

In the last decades, the use of robots has become a reality in different industrial sectors, such as the automotive and logistic sectors, in terms of automated or semi-automated cells. On the basis of this trend, it is credible that robots will be part of our daily life in the next future, entering our houses and workplaces. One of key factors in the use of robots in our everyday activities is the ability to plan the robot, so that an effective and efficient collaboration among the involved agents (robots and/or humans) is enabled .

In this talk, I will discuss my research efforts in robot motion planning when more agents are collaborating in a shared workspace. Specifically, I will present three main research directions: (1) multi-robot motion planning and coordination under design uncertainties in the context of multi-robot cells for car-body spot welding; (2) human-robot coordination through off-line planning of the robot motion on the basis of pre-analyzed human movements; (3) human-robot coordination through real-time planning of the robot motion based on human intention prediction .

This talk is based on joint works with Techion, Politecnico di Milano and Carnegie Mellon University.

מארחת: פרופ' ענת פישר

בברכה,

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