CRETE Project Welcomes Society 4.0

Speaker: Dr. Lefteris Doitsidis

Presentation's Title: Educational Robotics

Abstract: In the context of this talk we will present the concept of Educational Robotics (ER), a unique learning tool that can offer hands-on technology related activities in an attractive learning environment using robotic devices. We will provide a brief overview of the related field, focusing in K12 education, attempt to map the key components that consist ER and highlight their expected learning outcomes.
Based on these, we will introduce a novel framework that can be used as an ER tool. The proposed framework has been developed, using open tools and considering a variety of design constraints related with its functional characteristics and the educational goals that may be achieved.

Short bio: Dr. Lefteris Doitsidis is an Assistant Professor at the School of Production Engineering & Management of the Technical University of Crete. Prior to his appointment, he was a faculty member (Associate & Assistant Professor) at the Department of Electronics, Hellenic Mediterranean University (former TEI of Crete). He was also a visiting scholar at the Department of Computer Science and Engineering, University of South Florida, FL, U.S.A. His research interests lie in the areas of multirobot teams, design of novel control systems for robotic applications, autonomous operation and navigation of unmanned robotic vehicles, computational intelligence and educational robotics. He is the author of several publications, in international journals, conference proceedings and book chapters in the aforementioned fields. He has been involved as a senior researcher into numerous research projects funded by European and National funds.