

Course title: Development of intelligent systems

Course code: 63268

ECTS: 6

Professor: Danijel Skočaj

Undergraduate program

Short course description:

- Technologies and tools for the development of intelligent systems: an introduction
- Typical applications of intelligent technologies
- Technological platforms and development methodologies
- Tools for machine perception, machine learning and reasoning, with the emphasis on the techniques for integration of these tools
- Approaches to the integration of machine perception, learning, and planning into an artificial real-time agent system
- Specific properties of robotic systems
- Basics of mobile robotics
- Case studies of the development of complex intelligent systems The lectures will familiarize the students with key technologies and tools. The students will use these on practical problems within the scope of laboratory classes and projects. They will combine the knowledge and skills obtained in Artificial Intelligence and Machine Perception classes from the same course module. The emphasis of this course will be on the development of practical and functional implementations in both in simulation environments and especially in real-time robotskih platformah. Pri tem bodo študenti spoznali odprtokodna in prostodostopna okolja in orodja za razvoj inteligentnih sistemov. systems operating on robot platforms. The implementations will be developed in open-source frameworks and tools for development of intelligent systems.