

Robotics and Perception Group (RP-IRI)

The RP-IRI research team consists of 9 full time researchers and faculty members of the Robotics Department at the Institut de Robòtica i Informàtica Industrial (IRI) , a Joint Research Institute of the Spanish Council for Scientific Research (CSIC) and the Technical University of Catalonia (UPC). The group has fundamental research in three areas: Kinematics and Robot Design

Study mechanisms from different points of view, starting from the analysis of their possible mobility (position analysis and motion planning), continuing with their design (mechanism synthesis) and, finally, with their actual construction and control (novel parallel robots, tensegrities).

Perception and Manipulation

Enhance the perception, learning, and planning capabilities of robots in order to achieve higher degrees of autonomy and user-friendliness during everyday manipulation tasks.

Mobile Robotics and Intelligent Systems

Endow mobile robots and ubiquitous computing devices the necessary skills to aid humans in everyday life activities. These skills range from pure perceptual activities such as tracking, recognition or situation awareness to motion skills, such as localization, mapping, autonomous navigation, path planning or exploration.

RP-IRI Members

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