



MACHINE PERCEPTION & INTELLIGENT ROBOTICS



INTRODUCTION

The Machine Perception & Intelligent Robotics group (MAPIR) belongs to “Departamento de Ingeniería de Sistemas y Automática” and to “Instituto de Investigación en Ingeniería Mecatrónica y Sistemas Ciberfísicos (IMECH.UMA)”, both from the University of Malaga. The group has more than twenty-five years’ experience in the development of solutions for intelligent robotic systems (localization, map building, autonomous navigation, human-robot interaction, etc.) and sensory systems based on artificial vision and olfaction. During these years, the group has carried out pioneering and innovative projects, with continuous funding support from the Spanish Research Program (11 projects), the European Union (4 projects), and private companies (15+ contracts).

RESEARCH TOPICS

- Autonomous robots.
- Computer vision.
- Electronic noses.

SCIENTIFIC-TECHNICAL SERVICES

- Development of service and assistance robots.
- Data analysis and decision making through techniques from Artificial Intelligence and Machine Learning.
- Guided vehicles like robots, cars, drones, etc.
- Gas and odor detection and recognition.
- 3D modelling of objects, buildings and infrastructures.
- Monitoring and performance in smart environments.

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