

## MACHINE PERCEPTION & INTELLIGENT ROBOTICS



### INTRODUCTION

The Machine Perception & Intelligent Robotics group (MAPIR) belongs to the Department of System Engineering and Automatics and to Instituto de Investigación Biomédica de Málaga (IBIMA). The group has more than twenty 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.

### 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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