

## **A14: Computer Vision**

Computer vision techniques are designed to extract properties of the world from a set of images. The guidance of an autonomous vehicle, the automated evaluation of the quality of a piece of pottery or an automatic immersion of a graphic character in a film are some examples of current applications of computer vision.

The module's aim is to introduce students to the problems of vision and study the most common techniques for automatic analysis of images by computers. Special emphasis will be given to the study of the physical and geometrical fundamentals of vision. We will study issues such as imaging, modeling and calibration of cameras, stereovision, self-calibration, modeling and monitoring and object detection and analysis of human facial expression.