Research Areas

Research at the Intelligent and Interactive Systems Research Group is situated at the intersection of computer vision, machine learning and robotics.

Research keywords are: computer vision, machine learning: visual learning; appearance; object recognition and detection; video analysis, visuomotor learning, object tracking, data fusion, event detection, visual human-computer interaction, visual geometry

Current Projects

SignSpeak

The EU funded project SignSpeak focuses at the “scientific understanding and vision-based technological development for continuous sign language recognition and translation.” The aim is to increase the linguistic understanding of sign languages and to create a software that is able to translate signing into text.

Xperience

There are two main goals of Xperience. The first goal is to show that the state of the art enactive embodied cognition systems can be significantly enhanced by using structural bootstrapping - a concept taken from language learning. The second goal is to implement a complete robot system for automating introspective, predictive, and interactive understanding of actions and dynamic situations.

Intellact

- IntellAct

LearnBip

- LearnBiP

Concluded Projects

TRICTRAC

TRICTRAC is an project in the field of image processing. The aim is to development of algorithms for the tracking of objects in real time in one or more live video streams.

Project duration: 2003 to 2007

Funded by a WIST research grant from DGTRE