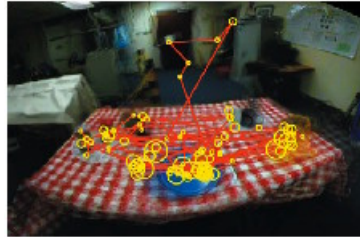




SEMINARIO DE IMÁGENES Y VISIÓN

INSTITUTO DE OPTICA (CSIC)

The roles of vision and eye movements in the control of activities of daily living



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ABSTRACT

Eye movements are studied for a number of reasons. Physiologists are interested in characterising them, in their mechanics, and in the neural mechanisms that control them. Psychologists are interested in their function, and use them to study perception, attention, memory, psycholinguistics, cognition and visuo-motor coordination, for example. Recent advances in portable eye-tracking technology now allow us to study eye movements during more natural behaviour. Results indicate that gaze is often directed in a task-specific fashion, with fixations directed to areas of behavioural significance. Convergent studies in computer vision have also shown that processing of visual information is computationally efficient if visual resources are allocated in a task specific manner - leading to a concept of active vision. This talk outlines recent work on eye movements in everyday tasks, where findings suggest eye movements are not only driven by our current actions, but they can also be directed to areas of future action.

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