



UNIVERSITY OF CENTRAL FLORIDA  
CENTER FOR RESEARCH IN COMPUTER VISION

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## INRIA Sophia Antipolis

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“Scene understanding for Activity Monitoring  
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### ABSTRACT

Since the population of the older persons grows highly, the improvement of the quality of life of older persons at home is of a great importance. This can be achieved through the development of technologies for monitoring their activities at home. In this context, we propose activity monitoring approaches which aim at analysing older person behaviors by combining heterogeneous sensor data to recognize critical activities at home. In particular, this approach combines data provided by video cameras with data provided by environmental sensors attached to house furnishings.

In this talk, we will then present several techniques for the detection of people and for the recognition of human activities using in particular 2D or 3D video cameras.

### BIOGRAPHY

François Brémond is leading the STARS team at INRIA Sophia Antipolis. He designs and develops generic systems for dynamic scene interpretation. The targeted class of applications is the automatic interpretation of indoor and outdoor scenes observed with various sensors and in particular with static cameras. These systems detect and track mobile objects, which can be either humans or vehicles, and recognize their behaviours. He is particularly interested in filling the gap between sensor information (pixel level) and recognized activities (semantic level). In 1997 he obtained his PhD degree at INRIA in video understanding and François Brémond pursued his research work as a post doctorate at USC on the interpretation of videos taken from UAV (Unmanned Airborne Vehicle). He has also participated to many European and industrial research projects in activity monitoring. François Brémond is author or co-author of more than 140 scientific papers published in international journals or conferences in video understanding. In 2005 he was a co-fonder of Keeneo, a company in intelligent video surveillance.

More information is available at: <http://www-sop.inria.fr/members/Francois.Bremond/>