Einladung zum Vortrag

**Semantic Activity Recognition**

von

Prof. Monique THONNAT

INRIA
Sophia Antipolis - FRANCE

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**ABSTRACT**

Extracting automatically the semantics from visual data is a real challenge. We describe in this talk how recent work in cognitive vision leads to significant results in activity recognition for visual surveillance and video monitoring. In particular we present work performed in the domain of video understanding in our PULSAR team at INRIA in Sophia Antipolis. Our main objective is to analyze in real-time video streams captured by static video cameras and to recognize their semantic content. We present a cognitive vision approach mixing 4D computer vision techniques and activity recognition based on a priori knowledge. Applications in visual surveillance and health care monitoring are shown. We conclude by current issues in cognitive vision for activity recognition.

**BIBLIOGRAPHICAL INFORMATION**

Monique Thonnat is deputy scientific director of INRIA (French National Institute for Research in Computer Science and Control) in charge of the Perception, Cognition and Interaction domain. Her research activity has always been at the frontier of computer vision and artificial intelligence. More precisely Image and Video Analysis, Image and Video Understanding, Cognitive Vision: Knowledge Modeling, Reasoning, Learning and Program Supervision: Planning and Control of Vision Software. Starting with an engineer diploma in optics and signal processing in 1980 and a PhD degree prepared in the Spatial Astronomical Lab of CNRS in Marseille in 1982, she joined INRIA at Sophia Antipolis in 1983 and became senior scientist in 1991. She created two research teams Orion in 1995 and Pulsar in 2008. She is the co-founder and scientific advisor of a start-up in video surveillance Keeneo (created in 2005). She published more than 100 scientific papers and supervised 21 PhD theses.

**WEITERE INFORMATIONEN**

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