PRediction and interpretatiOn of huMan behaviour based on probabilistic sTructures and HEterogeneoUs Sensors

Fact Sheet

Project Information

prometheus

Grant agreement ID: 214901

Project website

Funded under
FP7-ICT

Overall budget
€ 2 908 561

EU contribution
€ 2 150 000

Coordinated by
TOTALFORSVARETS FORSKNINGSINSTITUT
Sweden

Status
Closed project

Start date
1 January 2008

End date
31 December 2010

Project description

Cognitive Systems, Interaction, Robotics

The project intends to establish a link between fundamental sensing tasks and automated cognition processes that concern the understanding a short-term prediction of human behaviour as well as complex human interaction. The analysis of human behaviour is unrestricted environments, including localization and tracking of
multiple people and recognition of their activities, currently constitutes a topic of intensive research in the signal processing and computer vision communities. This research is driven by different important applications, including unattended surveillance and intelligent space monitoring. The overall goal of the project is the development of principled methods to link fundamental sensing tasks using multiple modalities, and automated cognition regarding the understanding of human behaviour in complex indoor environments, at both individual and collective levels. Given the two above principles, the consortium will conduct research on three core scientific and technological objectives:

1) sensor modelling and information fusion from multiple, heterogeneous perceptual modalities
2) modelling, localization, and tracking of multiple people
3) modelling, recognition, and short-term prediction of continuous complex human behaviour

Field of science

/ engineering and technology/electrical engineering, electronic engineering, information engineering/electronic engineering/signal processing
/natural sciences/computer and information sciences/artificial intelligence/computer vision

Programme(s)

Topic(s)

Call for proposal

FP7-ICT-2007-1

Funding Scheme

CP - Collaborative project (generic)

Coordinator

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Activity type: Research Organisations
EU contribution: € 591 806
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Activity type  
Private for-profit entities
<table>
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<td>PANEPISTIMIO PATRON</td>
<td>University Campus Rio Patras 265 04 Rio Patras</td>
<td>Higher or Secondary Education Establishments</td>
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<td>TECHNOLOGICAL EDUCATIONAL INSTITUTE OF CRETE</td>
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<td>Higher or Secondary Education Establishments</td>
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<td>FACULDADE CIENCIAS E TECNOLOGIA DA UNIVERSIDADE DE COIMBRA</td>
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