

PhD Proposal MAP-I

Distributed Intelligent Sensor Fusion

Supervisor and Research Units

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Abstract

When merging information relayed by remote agents, the validity of the information must be addressed in order to have only reliable and updated information.

Each intelligent sensor agent should evaluate the characteristics of each perception under current world circumstances (local and remote).

Distributed sensor fusion techniques are at the vanguard of current research and this research topic is interesting for many applications like large dynamic scenarios or robotic sports.

Objectives

The objectives include finding a meta-model for sensory information that allows for adequate distributed merging, finding adequate data structures, associated algorithms and finally validating in simulation for some frequently used sensors and robotic systems.

Additional Information

Complete description available upon request.