

2nd Workshop

Multiple Sensor Data Fusion: Trends, Solutions, Applications

Call for Papers

Motivation

Multiple Sensor Systems collect mutually complementary aspects of dynamically evolving scenarios characterized by many stationary or temporally changing quantities of interest. Of particular importance are surveillance applications for separately or collectively moving entities. The produced sensor data streams provide near real-time and often fairly precise information about position, kinematics, type, or other characteristics of relevant objects, object groups, or more generally defined quantities to be observed and tracked.

Multiple Sensor Data Fusion techniques provide higher level information from multiple sensor data by temporal data integration and exploitation of inherent complementarities and available context information. This relatively new branch of applied computer science aims at the production of comprehensive, precise, and near real-time situation pictures, which are basic for further decisions or actions. Applications exist, e.g., in systems for car driver assistance, medical care, public security, defence, aerospace, robotics, industrial production, precision agriculture, or traffic monitoring.

Key Aspects

- multiple sensor tracking for complex scenarios
- fusion of heterogeneous sensor information
- exploitation of non-sensor context knowledge
- detection & analysis of large scale phenomena
- performance: measures, evaluation, prediction
- risk analysis & data driven sensor management
- case studies of multiple sensor fusion systems

Participants

The workshop is addressing users, software developers, research engineers, and scientists working in the area of sensor data fusion. The participants get insight into current research trends, innovative approaches or algorithms, system solutions, and new applications in a dynamically evolving and living branch of applied computer science.

Contributions

Accepted will be contributions with a length of at most **5 pages**. Full draft papers have to be submitted via email to informatik2006@fgan.de by 26. 06. 2006 as a PDF or Word file. All submitted contributions are subject to a careful reviewing process by the program committee. Accepted contributions will be published in the GI-Edition *Lecture Notes in Informatics*. All submitted papers have to be prepared according the authors' style guide <http://www.gi-ev.de/service/publikationen/lni/>. It is expected that at least one of the authors of each accepted contribution will register for the GI Annual Meeting and present the paper.

Important Dates

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| 26. 06. 2006 | submission of full draft papers |
| 24. 07. 2006 | notification of acceptance |
| 07. 08. 2006 | submission of the final version |

Organisation

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Program Committee

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For participating in the workshop a registration for the GI Annual Meeting is required. For further information please follow www.informatik2006.de.