Vak: Data Fusion Architecture

credits: 5

Vakcode	SEVM21DFA
Naam	Data Fusion Architecture
Studiejaar	2026-2027
ECTS credits	5
Taal	Engels
Coördinator	M. Sedighi
Werkvormen	Hoorcollege Projectonderwijs
Toetsen	Data Fusion Architecture - Opdracht

Leeruitkomsten

At the end of this module the student:

- create data processing software for a sensor system which combines multi-sensor data into correct interpretations.
- analyse system requirements to identify applicable sensor fusion architectures.
- analyse data acquisition by a sensor system to construct a common representational format.
- adapt sensor system design to create correct temporal and spatial alignment and normalization of multi-sensor data.
- design interfaces for sensor system management.
- design and implement a system architecture using data stream management systems.
- design and implement mathematical data fusion models.

Inhoud

The course covers the following topics:
sensor fusion architectures, common representational format, temporal and spatial alignment, error propagation analysis and device virtualization.

Opgenomen in opleiding(en)

Smart Systems Engineering

School(s)

Engineering, Life Sciences & ICT

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