

EDUCATION & TRAINING

Remote sensing image analysis (ID7.6)















DESCRIPTION OF THE COURSE:

Context

Automatic machine learning algorithms have to do the job and to be able to detect important events and objects in real time to allow quick response in tactical environments.

Objectives

A Remote Sensing Image Analyst deals with large amounts of optical and radar remote sensing images. This course presents an overview of the main techniques and technologies necessary to achieve this objective in a context of big data.

Pre-requisites

Mathematics (basic algebra), basic signal processing theory and techniques, computer programming







This programme is focused on:

 Professionals working in the Defence and AeroSpace Industry (upskilling and re-skilling activities)

<u>IMPORTANT</u>: This prototyped programme is **EXCLUSIVE FOR** partners of the <u>ASSETs+</u> <u>consortium</u> and members of our Network.

If you want to join the ASSETs+ Stakeholders Group and become part of our ecosystem, please, <u>click here.</u>









General information

Format: Online

Language: English

• **EQF level:** 7

 Instructors: Alex Elkjær
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Hours: 8

Host institutions: AAU and RMA



Programme schedule

05 /06/2023 10:00 - 11:30	Characteristics of RS optical and radar and images
05 /06/2023 11:40 - 13:10	Classification and regression
06 /06/2023 10:00 - 11:30	Clustering
12/06/2023 10:00 - 11:00	Compressive sensing for images







Learning outcomes:

- Differences of the quality factors and features of optical and radar remote sensing images
- Deep knowledge of recent and relevant techniques for massively processing images
- To develop algorithms and systems for reformatting remote sensing images in an efficient way using compressive sensing
- Capability to develop and evaluate machine-learning techniques and to design big data learning systems
- To develop algorithms and systems for automatic clustering



More information

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