UNIVERSITY OF SKÖVDE

TRANSLATION FROM SWEDISH

COURSE SYLLABUS

Information Fusion A1F

7.5 credits

Course code: IT729A
Version number: 10
Valid from: 1 July 2023
Ratified by: Curriculum Committee for Informatics
Date of ratification: 13 October 2022

1. General information about the course

The course is provided by the University of Skövde and is named Information Fusion A1F (Informationsfusion A1F). It comprises 7.5 credits and is a second-cycle course. The level of progression is A1F.

The course is a part of the main field of study in Informatics. The disciplinary domain of the course is Technology.

2. Entry requirements

The course has the following entry requirements: passed IT776A Artificial Intelligence A1N (or the equivalent).

3. Course content

The course describes and discusses different methods for information fusion and discusses their use for decision support and the role of the human user of these systems. Different types of uncertainty within the information that has to be fused are presented and methods of uncertainty handling are discussed.

4. Objectives

After completed course the student should be able to:

- critically reflect on, discuss and present fundamental aspects of information fusion,
- critically reflect on and discuss the consequences of uncertainty and different methods to handle uncertainty within the area of information fusion,
- independently model problems and design solutions by using information fusion methods, and
- critically reflect on, and discuss the applicability of information fusion methods and their results.

5. Examination

The course is graded A (Excellent), B (Very good), C (Good), D (Satisfactory), E (Sufficient) or F (Fail).

The examinations of the course consist of the following modes of assessment:

- **Assignment 1**
  3 credits, grades: G/U
- **Assignment 2**
  4.5 credits, grades: A/B/C/D/E/F (determines the final grade)

Students with a permanent disability who have been approved for directed educational support may be offered adapted modes of assessment.

6. Types of instruction and language of instruction

The teaching is comprised of lectures, seminars, exercises and calculation exercises.

The teaching is conducted in English.

7. Course literature and other educational materials

Articles according to a reference list on the learning platform.

8. Student influence

Student influence in the course is ensured by means of course evaluation. The students are informed about the results of the evaluation and potential measures that have been taken or are planned, based on the course evaluation.

9. Additional information

The content of the course corresponds completely or partially with the following course(s) and cannot be included in the required credits of a degree qualification:

- DA711A - Information Fusion A1N 7.5 credits
- DA722A - Information Fusion - Advanced Topics A1F 7.5 credits

Further information about the course, as well as national and local governing documents for higher education, is available on the website of the University of Skövde.