
Modulbezeichnung: **Advanced Context Recognition (ACR)** **5 ECTS**
(Advanced Context Recognition)

Modulverantwortliche/r: N.N
Lehrende: und Mitarbeiter/innen,

Startsemester: SS 2022	Dauer: 1 Semester	Turnus: halbjährlich (WS+SS)
Präsenzzeit: 60 Std.	Eigenstudium: 90 Std.	Sprache:

Lehrveranstaltungen:

This term's project topics will include: (<https://www.cdh.med.fau.de/category/work-study/courses/>)

- Aerosol Dispersion and Viral Load Transfer Models
- I2MB - Validation of Activity Patterns in Buildings
- Bioacoustic Digestion Analysis
- Cardiac Biomarker Estimation in Anorexia Nervosa 2.0

The seminars will be introduced during the first meeting/Vorbesprechung on April 26, 4pm. The link to the first meeting will be announced soon.

Advanced Context Recognition (SS 2022, Seminar, 4 SWS, Anwesenheitspflicht, und Mitarbeiter/innen)

Inhalt:

ACR introduces and discusses current scientific topics in context recognition (i.e. identifying and describing a situation or state of the environment in the computer) from sensor data, including time series data and image data. Each term, new projects and medical applications are offered for the participating students to choose from. Learning objectives of the seminar are in the field of machine learning and pattern recognition and remain the same across all projects. The learning objectives are supported by practical implementation and validation of context recognition stacks in a project/application selected by the student.

Lernziele und Kompetenzen:

- Understand current scientific topics in context recognition of time series and image data.
- Apply machine learning and pattern recognition algorithms in context recognition.

Literatur:

Up-to-date literature recommendations will be provided during the seminars.

Verwendbarkeit des Moduls / Einpassung in den Musterstudienplan:

Das Modul ist im Kontext der folgenden Studienfächer/Vertiefungsrichtungen verwendbar:

[1] Informatik (Master of Science)

(Po-Vers. 2010 | TechFak | Informatik (Master of Science) | Gesamtkonto | Hauptseminar, Projekt, Masterarbeit | Hauptseminar | Advanced Context Recognition)

[2] Medizintechnik (Master of Science)

(Po-Vers. 2018w | TechFak | Medizintechnik (Master of Science) | M4 Hauptseminar Medizintechnik | Advanced Context Recognition)

[3] Medizintechnik (Master of Science)

(Po-Vers. 2019w | TechFak | Medizintechnik (Master of Science) | Modulgruppe M4 - Hauptseminar | Hauptseminar Medizintechnik / Advanced Seminar Medical Engineering | Advanced Context Recognition)

Studien-/Prüfungsleistungen:

Advanced Context Recognition (Prüfungsnummer: 705737)

Prüfungsleistung, Seminarleistung

Anteil an der Berechnung der Modulnote: 100%

weitere Erläuterungen:

schriftlich/mündlich

Erstablingung: SS 2022, 1. Wdh.: WS 2022/2023

1. Prüfer:
