Human-Centred Approaches and Technologies

Winter

HCAT

(in German: Human-Centred Approaches and Technologies)

Module-ID: FIN-INF-120490

Abbreviation	Credit Points	Semester	Term	Duration	Language	Level
HCAT	6	Winter	ab 1.	1 Semester	english	Master

Link:	LSF
Limited accessability:	
Responsibility:	Ernesto William De Luca
Lecturer:	Ernesto William De Luca / Susanne Schmidt
Classes:	• Seminar / Projekt *Human-Centred Approaches and Technologies*
Applicability in curriculum:	- M.Sc. INF: Informatik - M.Sc. INGINF: Informatik - M.Sc. WIF: Informatik - M.Sc. DKE: Applied Data Science - M.Sc. DE: Grundlagen Ingenieurwesen - M.Sc. DE: Human Factors - M.Sc. VC: Computer Science

Intended learning outcomes:

- Understanding of scientific writing
- Ability to evaluate scientific papers
- Involvement in scientific conferences
- Familiarity with online submission and review platforms
- Business Plan, Pitch, Start Up feeling, Understanding of Human-Centred Approaches and Technologies

Content:

- Scientific Writing
- Understanding of Scientific Conferences
- Reviewing Papers and related process
- Conducting a comprehensive systematic research literature review
- Evaluating research papers and the work of fellow students
- Delivering a final presentation and paper, which could be presented on a conference event
- Topics: Human-Centred Artificial Intelligence and Human-Centred Design, Eduaimonic Interaction Design, Legal AI, Ai and Leadership

Workload:
56 h contact time + 94h independent study + 30h project work

Pre-examination requirements:	**Type of examination:**	**Teaching method / lecture hours per week (SWS):**
Application with motivation Letter and Transcript of Record	Written report (Hausarbeit)	• Seminar (2 SWS) • Project (2 SWS)

Prerequisites according to examination regulations:	**Recommended prerequisites:**
keine	Machine Learning Information Retrieval Data Science Data Mining Fundamentals of Natural Language Processing Introduction to Deep Learning Human-Centred Artificial Intelligence Eudaimonic Interaction Design Human-Centred Natural Language Processing

Media:	**Literature:**

	• V. Dignum, “Responsible Artificial Intelligence – How to Develop and Use AI in a Responsible Way”, Springer, 2019. • B. Shneiderman, “Human-Centered AI”, Oxford University Press, 2022. • A. Schmidt, “Interactive Human Centered Artificial Intelligence: A Definition and Research Challenges”. • S. Barocas et al., “Fairness and Machine Learning”, 2019. • Documents related to Certification as Professional for Usability and User Experience (CPUX) https://uxqb.org/en/documents/

Comments:

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