Decision Support Project

every

Development of a Group Decision-Making App

(engl. Decision Support Project)

Modulnummer: FIN-INF-120501

Kürzel	CP	Semester	Fachsem.	Dauer	Sprache	Niveau
DSP	6	every	starting at 1.	1 Semester	deutsch	Master

Link zum LSF:	LSF
Zugang beschränkt:	
Verantwortung:	Graham Horton
Dozent:in:	Graham Horton, Jana Görs
Lehrveranstaltungen:	Weekly project meetings
Verwendbarkeit:	- M.Sc. INF: Informatik - M.Sc. INF: Schlüssel- und Methodenkompetenzen - M.Sc. INF: Informatik Wahlpflicht (SPO 2027) - M.Sc. INF: Schlüssel- und Methodenkompetenz (SPO 2027) - M.Sc. INF: Projekte (SPO 2027) - M.Sc. INGINF: Informatik - M.Sc. INGINF: Schlüssel- und Methodenkompetenzen - M.Sc. WIF: Informatik - M.Sc. WIF: Schlüssel- und Methodenkompetenzen - M.Sc. WIF: Informatik Wahlpflicht (SPO 2027) - M.Sc. WIF: Schlüssel- und Methodenkompetenz (SPO 2027) - M.Sc. WIF: Projekte (SPO 2027)

Angestrebte Lernergebnisse:
Graduates of this module...

- are familiar with the characteristics of multi-criteria group decision-making,
- know the CMAA method and can distinguish in which situations it is applicable,

- develop, test, and evaluate a software tool in a team,
- plan and facilitate at least one group decision-making process,
- carry out a team project and evaluate the quality of their teamwork,
- participate in collaborative decisions and understand their challenges and success factors,
- present their project results in a presentation and justify their conclusions,
- reflect afterwards on their role within the team and their individual contribution to the shared outcome,
- read academic publications and derive insights relevant to their task,
- reflect on team roles, assess their effectiveness, and make suggestions for improvement.

Inhalt:

- The participants develop a software tool to support group decisions in three-person teams Success criteria for teamwork Basic features of multi-criteria decisions Special features of cooperative group decisions Combinatorial Multicriteria Acceptability Analysis (CMAA) Regular team and coaching meetings Final presentation and report

Arbeitsaufwand:

- 28h attendance
- 152h independent work

Prüfungsvorleistungen:	**Studien-/Prüfungsleistungen:**	**Lehrform / SWS:**
	Report	2 SWS Project meeting

Voraussetzungen nach Prüfungsordnung:	**Empfohlene Voraussetzungen:**
None	• Interest in designing a software prototype on the basis of client interviews • Ability and willingness to work in a team • Programming experience, preferably in C, C++, Javascript or similar • Interest in the realization of research results in the form of a practical software tool

Medienformen:	**Literatur:**

	• Jana Görs: Combinatorial Multicriteria Acceptability Analysis for IT-Supported Group Decisions: Detailed Analysis, Enhanced Metric and Efficient Consensus Building • Goers J, Horton G: Combinatorial multi-criteria acceptability analysis: a decision analysis and consensus-building approach for cooperative groups. Eur J Oper Res 308(1):243–254

Hinweise:
Success in this module depends heavily on the quality of project and team work! The module can be credited as a Scientific Team Project in the programs M-INF, M-WIF and M-INGINF. The number of participants in limited to 18. Attendance at the kickoff meeting is compulsory.

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