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# Mini-Course "From Data Science to Interpretable AI" (Class of 2019)

Type: Blocked Seminar (Mini-Course), 1 ECTS, Application field: medicine/health

ECTS-Breakdown (sum=25 h, corresponds with 1 ECTS, where 1 ECTS = 25 h workload):

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|---|---|---|
| Presence during lecture | 4 * 2 h | 8 h |
| Reading task (handed out during the lecture) | 8 h | 8 h |
| Preparation for exam and written exam | 4 * 2 h + 1 h | 9 h |
| TOTAL students' workload | | **25 h** |

Class URL: https://human-centered.ai/mini-course-interpretable-ai-class-of-2019

Class Schedule for 2019 (subject to change: please check class URL for any changes):

| Nr | Day, Date | Time | h | Topic |
|---|---|---|---|---|
| 01 | Monday 17.6.2019 | 08:00-09:45 | 2 h | Introduction to Artificial Intelligence (AI) and data driven probabilistic Machine Learning (ML) |
| 02 | Monday 17.6.2019 | 10:00-12:00 | 2 h | Fundamentals of Data, Information, Knowledge Representation, Standardization and Ontologies |
| 03 | Monday 17.6.2019 | 13:00-14:40 | 2 h | Principles of human decision making, human information processing, probabilistic decision support |
| 04 | Monday 17.6.2019 | 15:00-17:00 | 2 h | From Expert Systems to Explainable AI: Causality, Decision Making, Explainability, Ethical responsibility |
| 05 | Tuesday 18.6.2019 | 17:30-18:30 | 1 h | Written exam |

Note: If needed there is a refresher on probability and information available