

WISE RESEARCH GROUP

INFOGROEP PRESENTATION 2018

Prof. Dr. Olga De Troyer

Prof. Dr. Beat Signer

Prof. Dr. Jan Hidders

Prof. Dr. Suzanne Kieffer

OVERVIEW

MASTER COURSES OFFERED BY WISE

- ▶ **Open Information Systems** (Mandatory in all programs)
 - ▶ Semantic Web, ontologies, Description Logics, ontology-based data integration
- ▶ **Conceptual Modeling & Design Methods** (Mandatory in WIS profile)
 - ▶ Advanced course on different modeling techniques and design methods
- ▶ **Next Generation User Interfaces** (Mandatory in WIS profile)
 - ▶ Multimodal interaction, speech, multi-touch, pen-based interaction, tangible interaction, augmented reality, ...
- ▶ **Information Visualization** (Mandatory in WIS profile)
 - ▶ History, principles, visualization techniques, effectiveness and suitability of the techniques
- ▶ **Web Information Systems** (Mandatory in WIS profile)
 - ▶ Advanced web technology and web systems: crowdsourcing, Web search, Web crawling, ...
- ▶ **Information Retrieval** (Elective)
 - ▶ Index construction, retrieval result scoring, retrieval feedback integration, PageRank
- ▶ **Advanced Topics in Information Systems** (Elective)
 - ▶ Seminar about recent developments in information systems and information management
- ▶ **Big Data: Distributed Data Management and Scalable Analytics** (Elective)
 - ▶ Big data management; algorithms, graph analytics, active & deep machine learning for large datasets

OVERVIEW

REPAIR COURSES OFFERED BY WISE

Max 12 SP in MCS/MCW

Max 9 SP in MTI

- ▶ Gebruikersinterfaces (User Interfaces)
- ▶ Web Technologies
- ▶ Databanken (Databases)

MASTER TOEGEPASTE INFORMATICA

STAGE & THESIS

- Internship & Thesis can be combined (6 + 15 ETCS)
- In collaboration or in a **company** !
- Subject needs to be approved by promoter.

OVERVIEW

RESEARCH

- Design principles
- Innovative Engineering Techniques
- Development Tools
- Software Frameworks

- Multimodal Interaction
- Context Awareness
- Personalization
- Adaptivity
- Gamification & Persuasive Techniques
- User Empowerment
- User Experience

- Big Data Processing
 - Distributed Data Processing
 - Graph Analytics
- Information Visualization
- Document Engineering
- Personal Information Management
- Explanation Interfaces

Design & Development of the Systems

Human Interaction with the Systems

Innovative Use of Information

Web & Information Systems

- Classical Information Systems
- Web Systems
- Mobile Systems
- Virtual & Augmented Reality Systems
- Cross-Media Systems
- Big Data Platforms
- E-Learning Systems
- Serious Games
- Playful Exploration Environments