

Doctoral seminar, Monday-Thursday, December 1-4, 2014

Organized by:

Graduate Program of Software Systems and Engineering (SoSE)

University of Oulu

Department of Information Processing Science

Paavo Havaksen tie 3, 90570 Oulu, Finland

Fundamentals of Business Process Management

Prof. Marlon Dumas, University of Tartu, Estonia

The course will give an overview of the discipline of business process management, with a focus on methods and tools for modeling, analyzing, automating and monitoring business processes.

Dates and classrooms

Monday, December 1st, 9:00-15.00, IT138

Tuesday, December 2nd, 8.15-14.00, IT138

Wednesday, December 3rd, 8.15-14.00, IT138

Thursday, December 4th, 8.15-12.00, IT134

The seminar will be held at the University of Oulu, Ympäristötietotalo, Paavo Havaksen tie 3, 90570 Oulu. The classrooms are at the 1st floor.

Please register in advance: liisa.kuonanoja@oulu.fi

Speaker bio:

Prof. Marlon Dumas is a professor of Software Engineering at the University of Tartu, Estonia since and a Scientific Leader of the Software Technologies and Applications Competence Centre (STACC). He was born in Honduras and received his PhD in Computer Science at the University of Grenoble, France in 2000. During 2000-2009, he worked as an associate professor at Queensland University of Technology, Australia. He conducts research in the areas of software engineering and information systems engineering and is interested in e.g. Business Process Management, Service-Oriented Computing and Web Information Systems.

Preliminary schedule:

Monday

Module 1: Introduction and process modeling

- What is BPM?
- Why BPM?
- The BPM lifecycle
- Why process modeling?
- Overview of BPMN
- Process modeling guidelines and conventions
- Research questions in process modeling

Tuesday

Module 2: Business process analysis

- Overview of analysis techniques
- Qualitative analysis techniques
- Quantitative analysis techniques
- Research questions in process analysis

Wednesday

Module 3: Business process automation

- Business Process Management Systems
- From Conceptual to Executable Process Models
- Research questions in process automation

Thursday

Module 4: Mining business processes

- Overview of process mining
- Process discovery from event Logs
- Deviance mining
- Research questions in process mining