

## Topics for BSc Thesis

### Exemplare Topics

Topic Area	Topic Description	Supervisor
Orchestrating software development processes	<p>The demand of highly flexible and easily adaptable information systems is an ongoing trend. This results in increasing complexity and the need for coordination as a major challenge for software development nowadays. Together with the growth of software development environments toward large-scale, different contemporary approaches for orchestrating those processes from an organizational and technical perspective are observable. Following the concept of organizational agility seems to be one response across different industries. Consequently, the raise of agile transformations is ongoing but comes along with various challenges caused by higher deviation from the originally intended settings.</p> <p>A bachelor thesis in this topic area further examines phenomena of orchestrating software development processes, such as particular challenges coming along with the implementation of agile approaches based on a literature review.</p>	Karoline Glaser
Process Mining	<p>The simple idea of “analyzing enterprise performance via processing the event-log data of the enterprise” got a lot of attention in the past few years while the outcome of this analysis provided many enterprises with unexpectedly valuable information. As process mining already proved its power in many important areas, especially within enterprises, we are very interested to investigate other capabilities of this technology in general as well as its applications in other areas. The new applications of process mining in areas such as agile development, human computer interactions, user behavior analysis.</p> <p>A thesis in this topic area will provide a literature review on the context of organizational process mining.</p>	Fareed Zandkarimi
Transparency, accompanied Employee Appraisals and Outcomes in Enterprise System Implementations	<p>Half a decade ago, a typical manager might have monitored production output, revenue, and expenses, compared them with the budget, and observed workers periodically in person. In contrast, nowadays, advances in Information Technology and Enterprise Systems enable companies to create real-time transparency of the workers’ labor and business processes far beyond any magnitude envisioned in the past. However, few companies consider the perspective of the observed and try to balance business and employee needs. By neglecting the employee’s need for privacy, companies struggle with commitment to the job, turnover intentions, and employees responding with resistance as well as routinely falsifying data.</p> <p>A thesis in this topic area will provide a literature review in topics related to transparency, coping reactions of employees and outcomes on the job and technology.</p>	Tobias Nisius

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### Last year's topics

- Process Mining and its new areas of application
- Mobile healthcare applications in the context of work stress reduction
- Manifestations of transparency in prior research
- New methods for enhancing user experience
- Overlapping as well as distinctions of transparency and privacy research
- Agile development in large-scale multi-team environments
- Transparency accompanied employee appraisals and outcomes in enterprise systems implementation #
- Software development on platform systems

For further information regarding the general research interests of the Chair of Enterprise Systems please also see the details of our master's seminar (IS 742) and the master thesis to get further ideas for potential research topics.