



INFORMATICS COLLOQUIUM

Speaker:

Prof. Dr. habil. Florian Johannsen

University of Applied Sciences Schmalkalden, Germany

Towards Tool-Supported Situational Roadmap Development for Process-oriented Quality Management (PQM) in the era of “Quality 4.0”

Abstract:

The quality management discipline is continuously evolving over time and the term “quality 4.0” coins the stage of development, in which “industry 4.0’s digital technologies” (e.g., Cyber-Physical-Systems, Internet of Things, Cloud Manufacturing, Augmented Reality, etc.) are applied to quality management practices. The “quality 4.0” concept is lively discussed in literature, and it will play a decisive role in the factory of the future. However, there are still uncertainties regarding the operationalization of the concept in practice and the topic is “too fresh” to have experienced a thorough theoretical foundation yet. So, it is rather unclear whether existing quality management methods and techniques for process improvement (process-oriented quality management) can be transferred to industry 4.0 settings or not. As a result, guidelines for the effective implementation of quality 4.0 principles are missing yet. Furthermore, companies often lack the resources to investigate the design of new quality management methods for industry 4.0.

This talk proposes “tool-supported situational roadmap development” as an instrument to arrive at enterprise-adapted approaches for PQM in times of “quality 4.0” that can be applied straight away and make use of conceptual modeling for communicating, processing and querying results. In the talk, a conceptual solution and a first prototype implemented via the ADOxx platform are presented.

Bio:

Florian Johannsen holds the position of a professor for “Enterprise Information Systems” at the University of Applied Sciences Schmalkalden. Until March 2019 he was a visiting professor for Industrial Services in the “Department of Economics” at the University of Bremen. He completed his habilitation in October 2017 and serves as a “private lecturer (Privatdozent)” at the University of Regensburg since then. He received his doctoral degree at the University of Regensburg in March 2011, where he worked as a research assistant and postdoctoral researcher from 2006 to 2017. During that time, he led several projects with partners from industry (e.g., BMW Financial Services, Alphabet Fleet Management, etc.) and published his research at highly regarded conferences and in reputable journals.

Date and time: Wednesday March 08th, 2023, 12.15 pm
Location: Pérolles 21, room E130, Bd de Pérolles 90, Fribourg
Contact person: Prof. Hans-Georg Fill

The colloquium is free and open to the public.