

## Technical Debt & Software Quality

*Folien:*  
Englisch

*Vortragssprache:*  
Englisch

*Umfang (mit Diskussion):*  
30 min.



*Abstract:* The popularity of Technical Debt is increasing rapidly. Many tools are available on the market, and they propose a set of coding rules, which represent something wrong in the code that will soon be reflected in a fault or will increase maintenance effort. However, while the management of some companies is encouraging developers not to violate these rules in the first place and to produce code below a certain technical debt threshold, developers are skeptical of their importance. In this talk, the state of the art on Technical Debt will be described through recent and relevant research works. We will focus on how to predict, measure and mitigate Technical Debt and, moreover, its impact on software quality.

*Vortragende:* **Dr. Valentina Lenarduzzi, M3S, University of Oulu**

Dr. Valentina Lenarduzzi is an assistant professor (tenure track) at University of Oulu (FI) & Adjunct professor at LUT University (FI). Her research activities are related to modern software development practices & methodologies, including data analysis in software engineering, software quality, software maintenance and evolution, focusing on Technical Debt as well as code and architectural smells. She obtained her Ph.D. in Computer Science in 2015 and was a postdoctoral researcher at the Free University of Bozen-Bolzano (IT), at the Tampere University and at LUT University (FI). Moreover, she was visiting researcher at the University of Kaiserslautern (TUK) and the Fraunhofer Institute for Experimental Software Engineering IESE (GE). She served as a program committee member of various international conferences (e.g., ICSE, ICSME, ESEM), and for various international journals (e.g., TSE, EMSE, JSS, IST) in the field of software engineering. She has been involved in the organization of several conferences & workshops (TechDebt, ESEM, EASE, PROFES, ICSE). Dr. Lenarduzzi is recognized by the Journal of Systems and Software (JSS) as one of the most active SE researchers in top-quality journals in the period from 2013 to 2020.