

PD Dr. Christoph Knieke

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Dr. Knieke studied computer science at the TU Braunschweig in Germany. During this time, he was already working as a research assistant. He received his diploma in computer science in 2004, his doctoral degree in 2011 and his habilitation degree in 2019. Furthermore, he worked as a lecturer at the TU Clausthal. In particular, he is interested in model-based systems engineering (MBSE), domain-specific modeling languages, software product line engineering and architecture evolution. Within these fields, he was also the leader of several R&D projects.

Since 2011, Dr. Knieke carried out industry-related IT projects in the field of software and system engineering, including projects with Volkswagen AG. The activities were located at the research center "DIGIT - Center for Digital Technologies", where he was the managing director until the end of 2019. In his current position as research group leader at the Institute for Software and Systems Engineering at the TU Clausthal, he is conducting research together with doctoral students in the areas of IT architectures, lifecycle engineering and model-based software development. The research group focuses on engineering approaches to the design and development of open and adaptive software systems.

In 2019, Dr. Knieke successfully completed his habilitation in computer science with the topic "Managed Evolution of Automotive Software Product Line Architectures" at the Faculty of Mathematics / Computer Science and Mechanical Engineering at TU Clausthal.

Dr. Knieke has been invited as a speaker, panelist and session chair and member of program and organizing committees to several national and international conferences, among them several IARIA conferences since 2017. At IARIA conferences, he values the opportunity to discuss important topics with an interdisciplinary audience, consisting of members of industry and science.

Selection of special tracks organized during IARIA conferences:

- Advanced and AI-based Methods for Model-based Systems Engineering (AIMBSE). Along with the Fifteenth International Conference on Systems (ICONS 2020), February 23 - 27, 2020 - Lisbon, Portugal.
- Data-driven Methods for Architecture Adaptation and Design (DaMAD). Along with the Eleventh International Conference on Adaptive and Self-Adaptive Systems and Applications (ADAPTIVE 2019), May 05 - 09, 2019 - Venice, Italy.
- Emergent, Sustainable and Resilient Mobility for Smart Regions and Cities (ESREM). Along with the Tenth International Conference on Adaptive and Self-Adaptive Systems and Applications (ADAPTIVE 2018), February 18 - 22, 2018 - Barcelona, Spain.
- Managed Adaptive Automotive Product Line Development (MAAPL). Along with the Ninth International Conference on Adaptive and Self-Adaptive Systems and Applications (ADAPTIVE 2017), February 19 - 23, 2017 - Athens, Greece.

ResearchGate Profile:

https://www.researchgate.net/profile/Christoph_Knieke