

## Topic block: Engineering

*Session: “Agile Methods for Hard-, Software, and Management”*

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### Description:

In recent years enterprises are increasingly seeking new methods to effectively encounter rising volatility, uncertainty, complexity and ambiguity on different levels of their entrepreneurial activities. The adoption of agile principles and methods is currently regarded as an adequate means to meet these challenges at various levels and areas of an organization. Levels and areas of application of agile methods range from individual projects to entire organizations as well as from soft- and hardware development, project management to new organizational forms of enterprises.

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### Answer to the question why it is now so immensely important:

The use of agile methods is a broad and complex concern encompassing diversity in approaches to designing, developing, and managing projects or organisations as a whole. The adoption of agile methods involves peoples, processes, organisational cultures and structures as well as the use of advanced and emerging technologies to foster communication and collaboration. Many factors influence and shape usage and adoption of agile methods so that distinct approaches have developed, including: adoption of agile or lean principles in development or production, tightening integration of development and operations (e.g. DevOps), increasing focus on individuals and collaboration in analysis and design of products or processes (e.g. Design Thinking) increasing focus on principles of self-organization and empowerment within teams and organisations (e.g. Holocracy), and the emerging potential of technology to adapt agile principles within distributed and virtual environments. This dynamic environment presents practitioners and researchers with new challenges and opportunities to improve our understanding of the complexity, benefits and obstacles to the application of agile methods in various contexts of use.

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### Goals & Target Attendance:

Papers in this track highlight research on current and emergent approaches, adoption or challenges in the application of agile methods to hard- or software development and management of organisations. We invite a wide range of topics. We welcome contributions related to any industry as well as related to any field of application (soft- and hardware development, production as well as agile organisations). The topics of interest include, but are not limited to:

- Strategies or transformation paths for a structured and targeted adoption of agile principles in organisations
- Roadmapping for the adoption of agile methods in organizations

- Effects of agile paradigms on management, leadership or performance management
- Identification of benefits and challenges of adopting agile principles in organizations or their potential for new business models
- Cases that demonstrate the usage of agile methods challenge existing businesses
- Innovative agile methods and approaches in organizational context
- Change management & workforce transformation for the adoption of agile methods
- Challenges in definition, adaptation or implementation of new or existing roles in organisations (e.g. Scrum Master, Product Owner, shared leadership, etc.)
- Concepts, criteria or assessments that help to evaluate the potential of technology to foster collaboration and communication within agile environments
- Innovative methods and approaches for the identification and selection of appropriate technology to support agile principles / methods

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### Important Dates:

- Full paper submission.....13<sup>th</sup> February 2018
- Poster submission..... 28<sup>th</sup> February 2018
- Full paper and poster notification of acceptance.....2<sup>nd</sup> April 2018  
(Reviews are performed as soon as papers are handed in, early submissions are strongly encouraged )
- Print-ready [IEEE-PDF express-compliant-final](#) papers,  
copy-right form.....16<sup>th</sup> April 2018

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Thank you very much for your interest in participating in the **24<sup>th</sup> ICE/IEEE ITMC International Technology Management Conference**, which will take place from **June 17<sup>th</sup> to 20<sup>th</sup> 2018, in Stuttgart** (Germany).



You intend to submit a paper for this session, but have some questions left. Then do not hesitate to contact your person in charge.

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#### Chair

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