

PoEM 2020 workshops

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Preface

This volume contains the proceedings of two workshops that were held in conjunction with PoEM 2020: the BES workshop (1st Workshop on Blockchain and Enterprise Systems) and ManComp 2020 (5th Workshop on Managed Complexity).

The BES workshop has the ambition to change the way one thinks, designs and implements enterprise systems. In an interconnected society, there is a growing need for coordination among different organizations, asking for trustable solutions to develop enterprise systems. From the technical perspective, the workshop can contribute to breaking the technological barriers for wider use of the blockchain in the enterprise systems, proposing novel approaches for the definition of such systems.

Enterprise architectures integrate well-defined principles and practices for the analysis, design, planning, and implementation of enterprise systems. To achieve an effective digital transformation, organizations need to close the gap between business, information, processes and technology, which is necessary to achieve their final strategy. In this respect, blockchain technology can bring huge advantages in many sectors, as it can guarantee the integrity and immutability of data without relying on a central authority or any particular entity. Thus, blockchain can be considered as the enabling technology that guarantees a tamper-proof execution of contractual obligations among organizations. However, for a large adoption of this technology, recent challenges should be addressed, such as the support of multiple blockchain platforms and the generation of the related smart contracts, breaking the technological barriers for non-expert users, etc.

The BES workshop received 10 submissions and published 8 papers from researchers affiliated in Belgium, Germany, Italy, Latvia, Switzerland, and the United States of America. The authors cover different aspects of blockchain and enterprise systems with a particular focus on algorithms, software engineering methodologies, simulation, execution, configurators and case studies. The papers were reviewed and selected by the program committee after a rigorous reviewing process. Each paper was assigned to at least three members of the program committee. More information about the selection process can be found via <http://pros.unicam.it/bes2020/index.html>.

The ManComp workshop is focused on approaches and methods for managing complexity in the domain of applied informatics that may concern interplay of systems and ecosystems of various sizes and substances. Its purpose is to share and transfer knowledge on complexity identification, representation, controlling and reduction as well as to exploit possible synergies in development of innovative complexity handling strategies, approaches, and methods.

The ultimate goal of the workshop is bringing together researchers and practitioners to discuss theoretical approaches or real-life case studies featuring success and/or failure stories in managing complexity. Purpose of these discussions is to deepen the understanding of strategies, approaches, and methods in managing complexity in enterprise, software and hardware engineering. A cross-pollination of experiences in both domains is assumed.

This year we had 7 contributions that were reviewed by at least two reviewers. Finally, we were able to accept 5 papers from researchers that will be presented on November 10th. The foundation of the papers is management of complexity, and they span topics such as architecture, mergers & acquisitions, risk, predictions and digital work. The authors are from Germany, Latvia and Denmark. More information about the selection process can be found via <https://wwwswt.informatik.uni-rostock.de/ManComp2020/call>.

Finally, we would like to express our gratitude to the Program Committee members and all participants for their efforts in discussing the submitted papers.

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BES workshop: 1st Workshop on Blockchain and Enterprise Systems

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