

Call for Papers

ManComp 2019

4th Workshop on Managed Complexity

1-day workshop

September 23, 2019 Katowice, Poland

In conjunction with **BIR 2019** conference <https://bir2019.ue.katowice.pl/>

Managing complexity has a long tradition for algorithms and general problems. However, it is an important issue also in Business Informatics domain. Here the complexity of different systems and systems of systems has to be managed. While complexity usually associates with large or very large scale systems still managing complexity is important even for systems with small sizes operating in complex environment. Nowadays informatics requires handling complexity at different levels and configurations of social, physical, enterprise, software, and hardware systems. The workshop is planned *to focus 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. It welcomes seeking and discussing answers to such complexity management questions as:

- How is complexity divided?
- What kinds of models are to be specified?
- What is the role of system architecture in complexity handling?
- How is the human recognized in the loop?
- What kind of rules are to be applied?
- In which way do patterns help?
- Which notation or ontologies are useful in complexity handling?
- How is knowledge reused?
- How is knowledge propagated?
- and many others.

Based on these discussions, we expect to deepen the understanding of strategies, approaches, and methods in managing complexity in enterprise and software engineering. A cross-pollination of experiences in both domains is assumed.

Three types of submissions are welcomed: position papers, research papers, and reports. All types should treat a topic from the workshop themes.

- **Position papers** (2-6 pages): Such papers should state the position of the authors regarding any topic of the workshop.
- **Reports** (4-8 pages) Experience reports and case studies are expected to be submitted in this category.
- **Research papers** (8-15 pages full research papers, 8-10 pages research in progress): Research papers should describe innovative approaches.

Publication

Workshop papers should be formatted following the Springer's LNCS formatting guidelines (see <http://www.springer.de/comp/lncs/authors.html>). Accepted Workshop papers will be published in CEUR proceedings of BIR DC and Workshops. Extended selected papers will be published the journal Complex Systems Informatics and Modeling (CSIMQ) <https://csimq-journals.rtu.lv/>

Important Dates

- July 19, 2019: Paper submission deadline
- August 21, 2019: Author notification
- September 4, 2019: Camera-ready submission
- September 23, 2019: Workshop date

Workshop topics include, but are not limited to:

- Measures of Complexity
- Agility in Complexity
- Models for handling complexity
- Tools for managing complexity
- Enterprise Architectures and Complexity
- Ontologies for managing complexity
- Patterns for managing complexity
- Capability impact on complexity management

Organizers

Peter Forbrig, University of Rostock, Germany – co main responsible

Marite Kirikova, Riga Technical University, Latvia – co main responsible

Charles Moller, Aalborg University, Denmark

Program Committee (tentative)

Clara Bassano, "Panthenope" University of Naples, Italy

Albertas Caplinskas, Institute of Mathematics and Informatics, Lithuania

Bertrand, David, Ecole Centrale de Lyon, France

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Oscar Pastor Lopez, Politechnical University of Valencia, Spain

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Malgorzata Pankovska, University of Economics in Katowice, Poland

Jose Perez Rios, University of Valladolid, Spain

Khuram Shahzad, University of the Punjab, Pakistan

Chris Stary, University of Linz, Austria

Bengt Wangler, Stockholm University, Sweden

Marco Winckler, Paul Sabatier University Toulouse, France

Jelena Zdravkovic, Stockholm University, Sweden

Iryna Zolotaryova, Kharkiv National University of Economics, Ukraine

Website

<http://wwwswt.informatik.uni-rostock.de/ManComp2019/>

Submission link:

<https://easychair.org/conferences/?conf=mancomp2019>

Contact

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