

Preface

Citation for published version (APA):

Fahland, D., Köhler-Bußmeier, M., & Moldt, D. (2018). Preface: Workshop on Petri Nets and Modeling 2018 . In *MOD-WS 2018* (CEUR Workshop Proceedings; Vol. 2060). CEUR-WS.org.

Document status and date:

Published: 01/02/2018

Document Version:

Publisher's PDF, also known as Version of Record (includes final page, issue and volume numbers)

Please check the document version of this publication:

- A submitted manuscript is the version of the article upon submission and before peer-review. There can be important differences between the submitted version and the official published version of record. People interested in the research are advised to contact the author for the final version of the publication, or visit the DOI to the publisher's website.
- The final author version and the galley proof are versions of the publication after peer review.
- The final published version features the final layout of the paper including the volume, issue and page numbers.

[Link to publication](#)

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal.

If the publication is distributed under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license above, please follow below link for the End User Agreement:

www.tue.nl/taverne

Take down policy

If you believe that this document breaches copyright please contact us at:

openaccess@tue.nl

providing details and we will investigate your claim.

Workshop on Petri Nets and Modeling 2018 (PeMod'2018)

In the context of Modellierung 2018 the PeMod'2018 (Petri Nets and Modeling 2018) workshop addressed trends in modeling, specifically for describing and analyzing complex and flexible systems, processes, and applications. Various fields in informatics developed proven solutions for modeling systems with these characteristics, though not necessarily in an integrated way. Petri nets on the other hand provide concepts for several of these characteristics.

The overall objective of this workshop is to facilitate the exchange between various fields of informatics regarding modeling of complex systems in general and Petri nets specifically, also in the context of more specific topics such as process mining, meta-modeling, self-adaption, simulation models, optimization, verification, validation, etc.

The two submitted and accepted papers are included within these proceedings:

- Hierarchical, Reconfigurable Petri Nets by Julia Padberg and Jan-Uriel Lorbeer
- Visualizing Regions with a new Split-Screen View for the Online Tool *travis* by Benjamin Meis and Robin Bergenthum

While Petri nets usually have a static system structure the paper of Padberg and Lorbeer propose a dynamic structural adaptation. Adaptation becomes possible by their introduced replacement of transitions by subnets, which are reconfigurable with a local set of rules, being embedded in a set of global rules. Teaching the mutual dependencies of behavioral and synthesized models is addressed by Meis and Bergenthum. The theory of regions is applied to synthesize a k -bounded Petri net model from a reachability graph and the other way around. Doing so they provide a tool that allows the concurrent visualization of states and markings in both models and their dependencies.

Discussions, invited talks and a panel discussion were commonly performed with the joined workshop AQEMO'2018 (2nd International Workshop on the Adequacy of Modeling Methods). The keynote by Bernhard Thalheim addressed foundations and future research challenges of model adequacy based on the the Kiel compendium of models, modeling activities and systematic modeling. Stefan Strecker's keynote related concepts of model evaluation and model quality cross-disciplinarily to linguistics, philosophy of language, and fundamental considerations in other branches of philosophy. The research talk by Mathias Uslar and Sebastian Hanna on a three-dimensional visualization approach for the RAMI 4.0 reference model for Industry 4.0 architectures for reducing efforts in requirements engineering of complex technical solutions complemented the talks of PeMod'2018. The joined workshops were concluded by a panel discussion on challenges and future research questions in the context of model adequacy led by Heinrich C. Mayr.

We thank the reviewers for providing helpful and detailed feedback. We also thank the organisation team of Modellierung 2018 for their support.

Braunschweig, February 2018

Dirk Fahland
Michael Köhler-Bußmeier
Daniel Moldt

Eindhoven University of Technology, Netherlands
University of Applied Science Hamburg, Germany
University of Hamburg, Germany

Program Committee

Robin Bergenthum	University of Hagen, Germany
Peter Buchholz	Germany
Didier Buchs	Switzerland
Lawrence Cabac	University of Hamburg, Germany
Christine Choppy	France
Piotr Chrzastowski-Wachtel	Poland
Amal El Fallah Seghrouchni	LIP6 - University of Pierre and Marie Curie, France
Dirk Fahland	Eindhoven University, Netherlands (Co-Chair)
Joel Greenyer	Leibniz Universität Hannover, Germany
Nicolas Guelfi	University of Luxembourg
Stefan Haar	ENS Cachan, France
Serge Haddad	ENS Cachan, France
Monika Heiner	Germany
Vincent Hilaire	France
Ekkart Kindler	Technical University of Denmark, Denmark
Michael Köhler-Bußmeier	University of Applied Science Hamburg, Germany (CoChair)
Maciej Koutny	University of Newcastle, United Kingdom
Lars Kristensen	Bergen University College, Norway
Robert Lorenz	University of Augsburg, Germany
Daniel Moldt	University of Hamburg, Germany (Co-Chair)
Berndt Müller	University of South Wales, United Kingdom
Wojciech Penczek	University of Podlasie, Poland
Laure Petrucci	France
Luise Pufahl	University of Potsdam, Germany
Ulrike Steffens	University of Applied Science Hamburg, Germany
Ulrich Ultes-Nitsche	Switzerland
Eric Verbeek	Eindhoven University of Technology, Netherlands
Karsten Wolf	University of Rostock, Germany
Christian Zirpins	Germany