

Proceedings

»PNSE'15«

International Workshop on
Petri Nets and Software Engineering

Satellite event of the
36th International Conference on
Application and Theory of Petri Nets
and Concurrency

15th International Conference on
Application of Concurrency to
System Design

Brussels, Belgium, June, 2015

including papers of

»ADECS'15«

International Workshop on
Petri Nets for Adaptive Discrete Event Control Systems

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PNSE'15 Editors: Daniel Moldt and
Heiko Rölke and
Harald Störrle

Proceedings of the
International Workshop on

Petri
Nets and
Software
Engineering

PNSE'15

University of Hamburg
Department of Informatics

Preface

These are the proceedings of the International Workshop on *Petri Nets and Software Engineering* (PNSE'15), which also includes the papers of the International Workshop on *Petri Nets for Adaptive Discrete Event Control Systems* (ADECS'15) in Brussels, Belgium, June 22–23, 2015.

They are co-located events of *Petri Nets 2015*, the 36th International Conference on Applications and Theory of Petri Nets and Concurrency and *ACSD 2015*, the 16th International Conference on Application of Concurrency to System Design. More information about the workshops can be found at:

For PNSE'15:

<http://www.informatik.uni-hamburg.de/TGI/events/pnse15/>

For ADECS'15:

<http://adecs2015.cnam.fr/>

PNSE'15 preface:

For the successful realisation of complex systems of interacting and reactive software and hardware components the use of a precise language at different stages of the development process is of crucial importance. Petri nets are becoming increasingly popular in this area, as they provide a uniform language supporting the tasks of modelling, validation, and verification. Their popularity is due to the fact that Petri nets capture fundamental aspects of causality, concurrency and choice in a natural and mathematically precise way without compromising readability.

The use of Petri Nets (P/T-Nets, Coloured Petri Nets and extensions) in the formal process of software engineering, covering modelling, validation, and verification, will be presented as well as their application and tools supporting the disciplines mentioned above.

ADECS'15 preface:

The new generation of Discrete Event Control Systems (DECS) is addressing new important criteria as flexibility and agility. This year concentrated on Dynamic Software Architectures and Adaptable Systems.

We included the papers of ADECS'15 in PNSE'15 and received more than 30 high-quality contributions. For each paper at least three reviews were provided. The program committees have accepted seven of them for full presentation. Furthermore the committee accepted eight papers as short presentations. Several more contributions were submitted and accepted as posters.

The two invited talks are presented by

Fabio Gadducci (UNIVERSITY OF PISA, ITALY).
Nicolas Guelfi (UNIVERSITY OF LUXEMBOURG, LUXEMBOURG)

The international program committee of PNSE'15 was supported by the valued work of following sub reviewers:

Thomas Brand,
Cesar Rodriguez,
Marisa Llorens,
Benjamin Meis,
Pedro Alvarez,
Marcin Hewelt and
Dimitri Plotnikov

Their work is highly appreciated.

Furthermore, we would like to thank our colleagues in Hamburg, Germany, for their support in the compilation of the proceedings, in Hagen, Germany, for the support with the CEUR handling and in Brussels, Belgium, for their excellent and responsive organizational support.

Without the enormous efforts of authors, reviewers, PC members and the organizational team this workshop wouldn't provide such an interesting booklet.

Thank you,

Daniel Moldt, Heiko Rölke and Harald Störrle (Chairs for PNSE'15) and
Kamel Barkaoui and Chadlia Jerad (Chairs for ADECS'15)

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