

Editor: Daniel Moldt

Proceedings of the  
International Workshop on

**P**etri  
**N**ets and  
**S**oftware  
**E**ngineering  
**PNSE'09**

University of Hamburg  
Department of Informatics



# Preface

This booklet contains the proceedings of the International Workshop on *Petri Nets and Software Engineering* (PNSE'09) in Paris, France, June 22-23, 2009. It is a satellite event of *Petri Nets 2009*, the 30th International Conference on Application and Theory of Petri Nets and Other Models of Concurrency.

More information about the workshop, like online-proceedings, can be found at

<http://www.informatik.uni-hamburg.de/TGI/events/pnse09/>

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, are presented as well as their application and tools supporting the disciplines mentioned above.

The intention of this workshop is to bring together research and application to have a lively mutual exchange of ideas, view points, knowledge, and experience. The submitted papers were evaluated by a programme committee, which was supported by several other international experts resulting in *four* reviews per submitted paper.

The program committee consists of:

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| Wil van der Aalst (The Netherlands) | Peter Buchholz (Germany)            |
| Didier Buchs (Switzerland)          | Piotr Chrząstowski-Wachtel (Poland) |
| Gianfranco Ciardo (USA)             | José-Manuel Colom (Spain)           |
| Raymond Devillers (Belgium)         | Zhenhua Duan (China)                |
| Berndt Farwer (United Kingdom)      | Jorge C.A. de Figueiredo (Brasil)   |
| Giuliana Franceschinis (Italy)      | Luís Gomes (Portugal)               |
| Nicolas Guelfi (Luxembourg)         | Guy Gallasch (Australia)            |
| Serge Haddad (France)               | Xudong He (USA)                     |
| Kees van Hee (The Netherlands)      | Monika Heiner (Germany)             |
| Vladimír Janoušek (Czech Republic)  | Gabriel Juhás (Slovak Republic)     |
| Astrid Kiehn (India)                | Ekkart Kindler (Denmark)            |
| Michael Köhler-Bufmeier (Germany)   | Gabriele Kotsis (Austria)           |
| Maciej Koutny (UK)                  | Lars Kristensen (Denmark)           |
| Xiaoou Li Zhang (Mexico)            | Johan Lilius (Finland)              |
| Robert Lorenz (Germany)             | Daniel Moldt (Germany) (Chair)      |
| Chun Ouyang (Australia)             | Wojciech Penczek (Poland)           |
| Laure Petrucci (France)             | Heiko Rölke (Germany)               |
| Sol M. Shatz (USA)                  | Christophe Sibertin-Blanc (France)  |
| Natalia Sidorova (The Netherlands)  | Mark-Oliver Stehr (USA)             |
| Harald Störrle (Austria)            | Ferucio Laurentiu Tiplea (Rumania)  |
| Ulrich Ultes-Nitsche (Switzerland)  | Karsten Wolf (Germany)              |
| Jianli Xu (Finland)                 | Christian Zirpins (Germany)         |
| Mengchu Zhou (USA)                  | Wlodek M. Zuberek (Canada)          |

We received 22 high-quality contributions. The program committee has accepted eight of them for full presentation. Furthermore the committee accepted nine papers as short presentations. At the common poster session with the workshop on Organizational Modeling (OrgMod'09) one poster is presented. The poster session is in addition open to all participants of the whole conference events to present ongoing work and current / future projects without written submissions.

Daniel Moldt

## Acknowledgments

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Martin Schwarick  
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Their work is highly appreciated.

Furthermore, we would like to thank the organizational team of the whole conference setting in Paris for their general support.

The organizational/technical work in Hamburg was supported by Yvonne Küstermann and Dimitri Popov.

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

Thanks!

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