Preface

This booklet contains the proceedings of the International Workshop on Petri Nets and Software Engineering (PNSE’07) in Siedlce, Poland, June 25-26, 2007. It is a satellite event of Petri Nets 2007, the 28th International Conference on Application and Theory of Petri Nets and Other Models of Concurrency.

PNSE’07 is organized by institutes from Eindhoven University of Technology, The Netherlands, the University of Hamburg, Germany, the University Pierre et Marie Curie-CNRS 4, Paris, France, the University of Toulouse, France, and the University of Zaragoza, Spain with the local support of the University of Podlasie, Institute of Computer Science and the University of Warsaw, Institute of Computer Science, PAS.

More information about the workshop can be found at

http://www.informatik.uni-hamburg.de/TGI/events/pnse07/

For the successful realization 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 that supports the tasks of modeling, validation and verification. Their popularity is due to the fact that fundamental aspects of causality, concurrency and choice are captured by Petri nets in a natural and mathematically precise way without compromising readability.

The use of Petri nets (P/T-nets, colored Petri nets and extensions) in the formal process of software engineering, covering modeling, 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, viewpoints, knowledge, and experience. The submitted papers were evaluated by a program committee, which was supported by several other international experts resulting in at least three reviews per submitted paper. The program committee consists of:

Wil van der Aalst (The Netherlands)  Rémi Bastide (France)
Jonathan Billington (Australia)       Didier Buchs (Switzerland)
Piotr Chrzastowski-Wachtel (Poland)  José-Manuel Colom (Spain)
Jörg Desel (Germany)                 Jorge C.A. de Figueiredo (Brasil)
Giuliana Franceschinis (Italy)       Nicolas Guelfi (Luxembourg)
Kees van Hee (The Netherlands)       Jens Børk Jørgensen (Denmark)
We received 23 high-quality contributions. The program committee has accepted nine of them for full presentation. Furthermore, the committee accepted four papers as short presentations and three short papers (submitted as such). In addition, these proceedings contain eight (non refereed) poster contributions. The poster session is open to all participants of all conference events who want to present ongoing work and current / future projects.

All papers tackle the concepts of objects, components, and agents from different perspectives. Formal as well as application aspects demonstrate the range within which Petri nets can be used and illustrate at the same time that there is a tendency to use more abstract concepts for the analysis and design of Petri net-based models.

The international program committee was supported by the valued work of additional reviewers. Their work is highly appreciated.

The organizers of the PNSE’07 workshop
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