CALL for PARTICIPATION

MATCH Workshop PNSE'97

Petri Nets in System Engineering

Modelling, Verification, and Validation

Hamburg, Germany, September 25–26, 1997

The MATCH workshop PNSE'97 (Petri nets used in System Engineering) will take place at the University of Hamburg on September 25–26. The workshop is organized within the scope of the European community project MATCH (Modelling and Analysis of Time Constrained and Hierarchical Systems). Project partners include the universities of Eindhoven, Genova, Hamburg, Paris, Turin, Vienna, and Zaragoza. Amongst the research activities undertaken in the project are aspects of modelling, verification and validation of complex systems which constitute the main emphasis of this particular workshop. The use of Petri nets (P/T-nets, coloured nets and extensions) in the formal process of System Engineering is studied as well as the application to selected domains.

Scope: The aim of the workshop is to bring together the MATCH partners and external researchers to exchange new ideas and recent results in the areas of modelling, validation and verification. Additional interest lies in applications and tools supporting the disciplines mentioned above.

Call for Participation: Contributions describing original research in topics related to Petri nets and surveys addressing open problems and new applications of Petri nets are being sought. Topics of interest include but are not limited to:

- Modelling
  - representation of formal models by intuitive modelling concepts
  - guidelines for the construction of system models
  - representative examples
  - state-, event-, and object-oriented approaches
  - adaption, integration, and enhancement of concepts from other disciplines
  - views and abstractions of systems
- Validation and Execution
  - prototyping
  - simulation, observation, animation
  - code generation and execution
  - testing and debugging
  - efficient implementation
- Verification
  - structural methods (e.g. place invariants, reduction rules)
  - results for structural subclasses of nets
  - relations between structure and behaviour
  - state space based approaches
  - efficient model checking
  - assertional and deductive methods (e.g. temporal logics)
  - process algebraic methods
  - applications of category theory and linear logic
- Application of Petri nets in System Engineering, in particular the use of Petri nets in the domains flexible manufacturing, logistics, telecom and workflow management.
- Tools in the fields mentioned above.

Program Team:

Wil van der Aalst (Eindhoven Univ. of Technology, Netherlands), José-Manuel Colom (Univ. Zaragoza, Spain), Susanna Donatelli (Univ. Turin, Italy), Fabrice Kordon (Univ. P. et M. Curie-CNRS 4, Paris, France), Gabriela Kotsis (Univ. Vienna, Austria), Daniel Moldt (Univ. Hamburg, Germany)

Local Organizing Team:

Berndt Farwer, Daniel Moldt, Mark-Oliver Stehr (all: Univ. Hamburg)

Submission of Contributions: The program team invites submissions of contributions (10 pages). E-mail submissions (in postscript or plain text) are encouraged. Please submit to `pnse97@informatik.uni-hamburg.de` . Hard copy submissions are also accepted and should be sent to the chairperson of the program team:

Daniel Moldt
University of Hamburg
Dept. of Computer Science
Vogt-Kölln-Str. 30
D-22527 Hamburg
Germany

Deadline for submissions:	**July 30, 1997**
Notification of acceptance:	**August 30, 1997**

Camera-ready copies of the full papers are due at the workshop. Presented contributions will be published as proceedings in the report series of the Dept. of Computer Science of the University of Hamburg.

For further information about PNSE'97 contact the local organizing team by email at:
`pnse97@informatik.uni-hamburg.de` or see
`http://www.informatik.uni-hamburg.de/TGI/aktuelles-/pnse97.html` .