Call for Papers and Announcement

Petri Nets 2004

25th INTERNATIONAL CONFERENCE ON APPLICATION AND THEORY OF PETRI NETS

Bologna, Italy, June 21-25, 2004

Additional information about the conference will be published via
http://www.cs.unibo.it/atpn2004

Contact e-mail: atpn2004@cs.unibo.it

Important Dates:

Submission of Papers & Tool Presentations:	November 15, 2003
Notification:	March 1, 2004
Final Version Due:	April 1, 2004
Tutorials:	June 21-22, 2004
Conference:	June 23-25, 2004

The 25th annual international Petri Net conference and tutorials will be organised by University of Bologna, Department of Computer Science. Papers presenting original contributions in any area of application and theory of Petri nets are sought. The language of the conference is English.

Topics

System design and verification using nets,
Analysis and synthesis, structure and behaviour of nets,
Relationships between net theory and other approaches,
Causality/partial order theory of concurrency,
Net-based semantical, logical and algebraic calculi,
Symbolic net representation (graphical or textual),
Computer tools for nets,
Experience with using nets, case studies,
Educational issues related to nets,
Higher-level net models,
Timed and stochastic nets,
Standardisation of nets,

Applications of nets to different kinds of systems and application fields, e.g.: flexible manufacturing systems, real-time systems, embedded systems, defence systems, biological systems, health and medical systems, environmental systems, hardware structures, telecommunications, railway networks, office automation, workflows, supervisory control, protocols and networks, Internet, e-commerce and trading, programming languages, performance evaluation, operations research.

The conference takes place under the auspices of EATCS and GI SIG "Petri Nets and Related System Models".

Paper Submissions

Papers are solicited for the conference. The conference has two co-chairs. Theory papers should be sent to Wolfgang Reisig, while application papers should be sent to Jordi Cortadella. Papers on the boundary of theory and application may be submitted to either co-chair. The title page must clearly indicate whether the paper is submitted as a theory paper, an application paper, or both. A typical application paper is a paper which describes one or more projects in which Petri net models and tools have been used in practice. An application paper may also describe a tool, a methodology, or other developments that demonstrate the applicability of Petri nets to industrial systems.

Electronic submissions via e-mail are strongly encouraged. Please send a self-contained PostScript file or PDF file. Authors who cannot comply with these instructions should send **6 paper copies**. All submissions must be **received** no later than November 15, 2003.

Papers must be in English. Papers must be original contributions that have not been published previously, nor already submitted to other conferences in parallel with this conference. The length of the paper cannot exceed 20 pages, and the paper should be in such a form that it can be immediately included in the proceedings without major revision. The title page must contain a short abstract and a classification of the topics covered, preferably using the list of topics above. The paper must clearly state the problem being addressed, the goal of the work, the results achieved, and the relation to other work. Submissions received too late and submissions sent by fax will be immediately rejected. The same will happen with papers which are not in English or exceed the page limit (with a reasonable font size). Authors will be notified of acceptance/rejection by March 1, 2004.

The proceedings will be published by Springer-Verlag in Lecture Notes in Computer Science. The final camera-ready version of accepted papers must be received by Wolfgang Reisig no later than April 1, 2004. The page limit is 20 pages. Authors should follow the instructions on: http://www.springer.de/comp/lncs/authors.html.

Program Committee Co-Chair (Theory Papers)

Wolfgang Reisig
Humboldt-Universität zu Berlin
Institut für Informatik
Unter den Linden 6
D-10099 Berlin
Germany

Phone: +49 30-2093-3065
Fax: +49 30-2093-3067
E-mail: reisig@informatik.hu-berlin.de

Program Committee Co-Chair (Application Papers)

Jordi Cortadella
Department of Software
Technical University of Catalonia
Campus Nord, Mòdul C5
Jordi Girona Salgado 1-3
08034 Barcelona, Spain

Phone: +34 93-4017326
Fax: +34 93-4017014
E-mail: jordi.cortadella@upc.es

Organising Committee Chair

Roberto Gorrieri
University of Bologna
Department of Computer Science
Mura Anteo Zamboni 7, 40127 Bologna, Italy

Phone: +39 051 2094509
Fax: +39 051 2094510
E-mail: gorrieri@cs.unibo.it

Tools Demonstration Chair

Gianluigi Zavattaro
University of Bologna
Department of Computer Science
Mura Anteo Zamboni 7, 40127 Bologna, Italy

Phone: +39 051 2094876
Fax: +39 051 2094510
E-mail: zavattar@cs.unibo.it

Tutorials

The conference takes place Wednesday to Friday. However, the preceding Monday and Tuesday also offer a large variety of Petri net activities.

The **Introductory Tutorial** is offered to participants who have little or no prior experience with Petri nets. The talks give an overview of the area, and they will help new-comers to understand the basic ideas in many of the conference contributions. The **Advanced Tutorials** and **Workshops** are offered to those who already have some knowledge of Petri nets. They are divided into several strands covering different subjects. A detailed description of the tutorials and workshops will be available via the conference Web pages.

Finally, it will be possible to arrange meetings for different groups, e.g., participants in international Petri net projects. It will also be possible to arrange small educational courses, e.g., with respect to some of the Petri net tools. Submissions for such activities must contain a 2-5 page description. They must be **received** by Wolfgang Reisig before January 15, 2004.

Tools for Petri Nets

As part of the conference, there will be an Exhibition of Computer Tools for Petri nets together with a limited number of tool presentations, i.e., talks about tools.

A tool presentation must focus on the description of a computer tool for Petri Nets (not an application of the tool or the theory behind the tool). A rotation principle will be enforced. This means that the same tool cannot be presented year after year -- unless it has been significantly enhanced.

Submissions for tool **presentations** must be in English. The length of the presentation cannot exceed 10 pages, and it should be in such a form that it can be immediately included in the proceedings without major revision. Submissions must be **received** by Jordi Cortadella before November 15, 2003. Electronic submissions via e-mail are strongly encouraged.

Submissions for tool **demonstrations** must contain a 2-5 page description. They must be **received** by Gianluigi Zavattaro before April 1, 2003. Participants wishing to demonstrate tools are encouraged to bring their own machines, as only a limited number of local machines will be available for this purpose, with limited support for installation.

History of the Conference

The aim of the conference is to create a forum for discussing progress in the application and theory of Petri nets. Typically, the conferences have 150-200 participants - one third of these coming from industry, the rest from universities and research institutions. The conference takes place in the last week of June. The proceedings are published by Springer-Verlag as Lecture Notes in Computer Science (http://www.springer.de/comp/lncs/authors.html).

1. 1980 Strasbourg, France
2. 1981 Bad Honnef, Germany
3. 1982 Varenna, Italy
4. 1983 Toulouse, France
5. 1984 Aarhus, Denmark
6. 1985 Espoo, Finland
7. 1986 Oxford, UK
8. 1987 Zaragoza, Spain
9. 1988 Venice, Italy
10. 1989 Bonn, Germany
11. 1990 Paris, France
12. 1991 Aarhus, Denmark
13. 1992 Sheffield, UK
14. 1993 Chicago, USA
15. 1994 Zaragoza, Spain
16. 1995 Torino, Italy
17. 1996 Osaka, Japan
18. 1997 Toulouse, France
19. 1998 Lisbon, Portugal
20. 1999 Williamsburg, USA
21. 2000 Aarhus, Denmark
22. 2001 Newcastle upon Tyne, UK
23. 2002 Adelaide, Australia
24. 2003 Eindhoven, The Netherlands

Program Committee

W. van der Aalst, The Netherlands
L. Bernardinello, Italy
D. Buchs, Switzerland
N. Busi, Italy
S. Christensen, Denmark
G. Ciardo, USA
J. Cortadella, Spain, co-chair (applications)
J. Desel, Germany
X. He, USA
H. Klaudel, France
H.C.M. Kleijn, The Netherlands
M. Koutny, UK
S. Kumagai, Japan
D.-I. Lee, Korea
J. Lilius, Finland
P. Moreaux, France
M. Mukund, India
C. Lakos, Australia
L. Recalde, Spain
W. Reisig, Germany, co-chair (theory)
W. Sanders, USA
P.S. Thiagarajan, Singapore
E. Vicario, Italy
H. Voelzer, Germany
A. Yakovlev, UK

Steering Committee

J. Billington, Australia
S. Donatelli, Italy
G. De Michelis, Italy
T. Murata, USA

S. Haddad, France
K. Jensen, Denmark
M. Koutny, United Kingdom
S. Kumagai, Japan
C. A. Petri, Germany (honorary member)
W. Reisig, Germany
G. Rozenberg, The Netherlands (chair)
M. Silva, Spain

Other Major Activities of the Petri Net Community

Petri Net Newsletter

The newsletter is published twice a year by the Special Interest Group on Petri Nets and Related System Models of the Gesellschaft für Informatik. It contains short research articles, surveys and state-of-the-art reports, announcements, programs and reports on meetings, theses and new books, abstracts of recent publications, etc. The executive editors are:

- Gabriel Juhás
  E-mail: gabriel.juhas@ku-eichstaett.de
  URL: http://www.informatik.ku-eichstaett.de/juhas/
- Ekkart Kindler
  E-mail: kindler@uni-paderborn.de
  URL: http://www.uni-paderborn.de/cs/kindler

Contributions should be sent to one of the editors. Deadlines are the end of March and the end of September. Subscription forms can be ordered from one of the editors. Subscription forms (and former issues) can also be ordered via fax, mail or e-mail from the following address:

- Gesellschaft für Informatik e. V.
  E-mail: gs@gi-ev.de
  URL: http://www.gi-ev.de/allgemeines/index-english.html

Advances in Petri Nets

The Advances in Petri Nets series is published by Springer-Verlag as Lecture Notes in Computer Science (http://www.springer.de/comp/lncs/). The volumes are edited by G. Rozenberg. The intention of this series is to present the most significant recent results in the application and theory of Petri Nets to the broad computer science community. Each volume of Advances is devoted to a specific research area. To get more information about Advances please contact:

- Grzegorz Rozenberg
  E-mail: rozenber@liacs.nl
  URL: http://www.liacs.nl/~rozenber/

Advanced Courses on Petri Nets

These courses are organised periodically in order to present the progress in Petri nets in a systematic way. Until now there have been three courses: Hamburg 1979, Bad Honnef 1986 and Dagstuhl 1996. The material from the courses are published by Springer-Verlag as Lecture Notes in Computer Science.

The **fourth Advanced Course** takes place September 15-26, 2003 in Eichstätt, Germany.

Petri Net WWW and Petri Net Mailing Group

These electronic services are used to disseminate announcements, questions, bibliographies, tool information, addresses, and all other kinds of Petri net related information. The services are maintained by the CPN group at University of Aarhus, Denmark. More information can be obtained at the following addresses:

- Kjeld H. Mortensen
  E-mail: PetriNets-owner@daimi.au.dk
  URL: http://www.daimi.au.dk/PetriNets/