Call for Papers and Announcement

Petri Nets 2013

34th INTERNATIONAL CONFERENCE ON
APPLICATION AND THEORY OF PETRI NETS AND CONCURRENCY

Milano, Italy, June 24-28, 2013

Additional information about the conference will be published via
http://www.mc3.disco.unimib.it/petrinets2013/
Contact e-mail: petrinets2013@disco.unimib.it

Important dates

Submission of Papers: January 10, 2013
Notification: March 1, 2013
Final Version Due: April 1, 2013
Submission of Tutorial Proposals: January 10, 2013
Participation in Tool Exhibition: June 1, 2013
Workshops and Tutorials: June 24-25, 2013
Conference: June 26-28, 2013

The deadline for submission of papers is STRICT. However, if you submit the

title page by January 10 it is sufficient to submit the full paper by January 15.

Some of the best papers accepted for the conference will be invited as submissions
to a special issue of the Fundamenta Informaticae journal.

The 34th annual international Petri Net conference will be organised by the Department of Computer Science, Systems and Communication (DISCo), University of Milano–Bicocca. The conference takes place under the auspices of the Academia Europaea, EATCS, and GI SIG “Petri Nets and Related System Models”. The language of the conference is English, and its proceedings will be published by Springer-Verlag in Lecture Notes in Computer Science. All accepted papers will be considered for the “Outstanding Paper” award(s). Papers presenting original research on application or theory of Petri nets, as well as contributions addressing topics relevant to the general field of distributed and concurrent systems are sought.

General topics related to concurrency

- Model checking and verification of distributed systems
- Verification of infinite-state or parametric systems
- Causality/partial order theory of concurrency
- Educational issues related to concurrency
- New issues and developments in the theory of concurrency
- Modelling of hardware and biological systems

Topics specific to Petri Nets

- System design using nets
- Analysis and synthesis, structure and behaviour of nets
- Relationships between Petri Nets and other approaches
- Net-based semantical, logical and algebraic calculi
- Symbolic net representation (graphical or textual)
- Computer tools for nets
- Experience with using nets, case studies
- Higher-level net models
- Timed and stochastic nets
- Standardisation of nets
- Experience reports on 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
  - telecommunications
  - railway networks
  - office automation
  - workflows
  - supervisory control
  - protocols and networks
  - Internet
  - e-commerce and trading
  - programming languages
  - performance evaluation
  - operations research
Paper Submissions

Two kinds of papers can be submitted:

- regular papers (max 20 pages) describing original results pertaining to the development of the theory of Petri Nets and distributed and concurrent systems in general, new results extending the applicability of Petri Nets, or case studies, application and experience reports pertinent to the practical use of Petri Nets and concurrency. For papers describing the experiences from applications of Petri Nets, authors are encouraged to consult the document: http://www.informatik.uni-hamburg.de/TGI/PetriNets/sc-info/docs/ApplicationFormat.pdf.
- tool papers (max 10 pages) describing a computer tool based on Petri Nets (not an application of the tool or the theory behind the tool). For more information, please see the document: http://www.informatik.uni-hamburg.de/TGI/PetriNets/sc-info/docs/ToolFormat.pdf.

The tool should be available for use by other groups (but not necessarily for free). The submission should indicate how the reviewers can get access to the tool (this must be for free). The tool will be demonstrated in the Tool Exhibition, in addition to being presented in a conference talk.

Submitted papers must:

- be contributions that have neither already been published nor are simultaneously being considered for publication in a peer-reviewed forum;
- clearly state the problem being addressed, the goal of the work, the results achieved, and the relation to other work;
- be in English and in the Springer LNCS-format: http://www.springer.de/comp/lncs/authors.html;
- adhere to the page limit for the relevant category (see above);
- be sent electronically (as a PDF file) no later than the above mentioned deadlines, using the website http://www.easychair.org/conferences/?conf=petrinets2013.

The title page must:

- contain a short abstract and a classification of the topics covered, preferably using the list of topics above;
- clearly indicate whether the paper is submitted as a regular paper or tool paper.

Authors will be notified about the outcome of the evaluation procedure by March 1, 2013. Submissions violating the above requirements may be immediately rejected by the PC Chairs.

Tool Exhibition

An exhibition of Petri net tools takes place on Wednesday. It consists of informal demonstrations for small groups/individuals, and there are no scheduled talks. Requests for participation in the tool exhibition must be sent to the Tool Exhibition Chair before June 1, 2013. They should include a link to the web pages for the tool (or a short description of the tool). The demonstrators bring their own machines, while the organisers may be requested to give access to the Internet.

Workshops and Tutorials

The conference takes place from Wednesday to Friday. The days before the conference also offer a wide range of activities.

The Petri Net Course takes place from Sunday to Tuesday. It offers a thorough introduction to Petri Nets and consists of four parts: Basic Net Classes, Coloured Petri Nets, Timed and Stochastic Petri Nets, and Applications of Petri Nets. If all four parts are followed, 3 ECTS credit points can be awarded to a participant. For further information please contact Jetty Kleijn (kleijn@liacs.nl) or Jörg Desel (joerg.desel@fernuni-hagen.de).

The Workshops and Advanced Tutorials take place on Monday and Tuesday. A detailed description of the tutorials and workshops will be available via the conference web pages.

It is also possible to arrange meetings and courses related to Petri Nets. Submissions for such activities must contain a 2–5 page description. They must be received by the PC-chairs no later than January 10, 2013.
Organisation

Steering Committee

W. van der Aalst, The Netherlands  S. Haddad, France
J. Billington, Australia  K. Hiraishi, Japan
G. Ciardo, USA  K. Jensen, Denmark
J. Desel, Germany  J. Kleijn, The Netherlands
S. Donatelli, Italy  F. Kordon, France
M. Koutny, UK (chair)  G. Rozenberg, The Netherlands
C. Lin, China  M. Silva, Spain
W. Penczek, Poland  A. Valmari, Finland
L. Pomello, Italy  A. Yakovlev, UK

Program Committee

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C. Lin, China  S. Taoka, Japan
N. Lohmann, Germany  A. Valmari, Finland
I. Lomazova, Russia  M. Westergaard, The Netherlands

Program Committee Co-chairs

José Manuel Colom  Jörg Desel
EINA-Universidad de Zaragoza  Fernuniversität in Hagen
c. María de Luna, 1  IZ-Universitätsstraße 1
50018 Zaragoza  58097 Hagen
Spain  Germany

Phone: +34 976 76 2351  Phone: +49 2331 987 2609
Fax: +34 976 76 1914  Fax: +49 2331 987 317
E-mail: jm@unizar.es  E-mail: joerg.desel@fernuni-hagen.de

Workshop and Tutorial Co-chairs

Serge Haddad  Alex Yakovlev
LSV, CNRS & ENS de Cachan  Newcastle University, School of Electrical, Electronic and
61, avenue du Président Wilson  Computer Engineering
94235 CACHAN Cedex  Merz Court, Claremont Road
France  NE1 7RU Newcastle upon Tyne

Phone: +33 (0)1 47 40 75 24  Phone: +44 191-222-8184
Fax: +33 (0)1 47 40 75 21  Fax: +44 191-222-8180
E-mail: haddad@lsv.ens-cachan.fr  E-mail: alex.yakovlev@newcastle.ac.uk

Organising Committee Chair  Tool Exhibition and Publicity Chair

Lucia Pomello  Luca Bernardinello
Università di Milano-Bicocca  Università di Milano-Bicocca
Department of Computer science, systems and  Department of Computer science, systems and
communication  communication
viale Sarca 336 U14  viale Sarca 336 U14
I-20126 Milano  I-20126 Milano
Italy  Italy

Phone: +39 02 6448 7816  Phone: +39 02 6448 7872
Fax: +39 02 6448 7839  Fax: +39 02 6448 7839
E-mail: petrinets2013@disco.unimib.it  E-mail: petrinets2013@disco.unimib.it
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 100–150 participants—some 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/).

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 Venezia, Italy
10. 1989 Bonn, Germany
11. 1990 Paris, France
12. 1991 Aarhus, Denmark
13. 1992, Sheffied, 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
25. 2004 Bologna, Italy
26. 2005 Miami, USA
27. 2006 Turku, Finland
28. 2007 Siedlce, Poland
29. 2008 Xi’an, China
30. 2009 Paris, France
31. 2010 Braga, Portugal
32. 2011 Newcastle upon Tyne, UK
33. 2013 Hamburg, Germany

Other Major Activities of the Petri Net Community

Petri Net Newsletter

The newsletter (http://www.informatik.uni-hamburg.de/TGI/PetriNets/periodicals/) is published twice a year by the Special Interest Group on Petri Nets and Related System Models of the Gesellschaft für Informatik. It contains refereed articles, surveys and state-of-the-art reports. Moreover, it contains work-in-progress papers, all kinds of announcements, programs and reports on meetings and activities, information on theses and new books, and abstracts of recent publications. The executive editor is Robert Lorenz (e-mail: robert.lorenz@informatik.uni-augsburg.de). Contributions should be sent to the editor. Deadlines are mid March and mid September. Further information as well as subscription forms can be obtained from the editor or from the Petri Net Newsletter web site: http://www.informatik.uni-augsburg.de/pnnl/.

Transactions on Petri Nets and Other Models of Concurrency (ToPNoC)

ToPNoC (http://www.springer.com/lncs/topnoc) is published by Springer-Verlag as a journal subline in Lecture Notes in Computer Science (LNCS). ToPNoC contains revised versions of some of the best papers from workshops and tutorials at the annual Petri net conferences, special sections/issues within particular subareas (like some of those which have been published as volumes in Advances in Petri Nets), and papers submitted directly to ToPNoC by their authors.

To get more information about ToPNoC please contact the editor-in-chief: Kurt Jensen (e-mail: kjensen@cs.au.dk, web site http://person.au.dk/en/kjensen@cs).

Advanced Courses on Petri Nets

These courses are organised periodically in order to present the progress in Petri net research and applications. The fifth Advanced Course took place in Rostock, Germany, September 13–24, 2010. Karsten Wolf was course director and head of the local organizing committee while Wil van der Aalst, Gianfranco Balbo and Maciej Koutny were scientific directors. More detailed information about the course are available on the web page http://www.petrinet-summerschool.org. Previously there have been Advanced Courses in: Hamburg 1979, Bad Honnef 1986, Dagstuhl 1996 and Eichstätt 2003. The material from the courses is published by Springer-Verlag as Lecture Notes in Computer Science.

Petri Net WWW and Petri Net Mailing list

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 TGI group at University of Hamburg, Germany. More information can be obtained at the following addresses:

- E-mail: petriadm@informatik.uni-hamburg.de
- Web: http://www.informatik.uni-hamburg.de/TGI/PetriNets/