Call for Papers and Announcement
PETRI NETS 2023
44th INTERNATIONAL CONFERENCE ON APPLICATION AND THEORY OF PETRI NETS AND CONCURRENCY

25–30 June 2023, Lisbon, Portugal
https://petrinets2023.github.io/ | email: petrinets2023@campus.fct.unl.pt

Abstract submission	January 13, 2023 (*)	Registration for Tool Presentations	May 31, 2023
Submission of papers	January 20, 2023 (*)	Petri Net Course	June 25–27, 2023
Notification	March 5, 2023	Workshops and Tutorials	June 26–27, 2023
Final version due	March 18, 2023 (*)	Main Conference	June 28–30, 2023

(*) The deadline is the end of day Anywhere on Earth (AoE)

The **44th annual international Petri Nets conference** will be organised by the **R&D Group on Reconfigurable and Embedded Systems** at **NOVA School of Science and Technology** and will be held at Lisbon on one of the campi of NOVA University Lisbon.

The language of the conference is English, and its proceedings will be published by **Springer-Verlag in Lecture Notes in Computer Science**. 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** or focused on **applications of concurrency to systems design** are encouraged to submit.

All accepted papers will be considered for an *Outstanding Paper* award. Authors of **selected papers** presented at the conference will be invited to submit an extended version that will be further reviewed for inclusion into a special issue of a renowned journal.

Topics specific to Petri Nets

- Analysis and synthesis, structure and behaviour of nets
- System design and model-driven development using nets
- Relationships between Petri nets and other approaches
- Net-based semantical, logical and algebraic calculi
- Higher-level net models (e.g, coloured nets, timed nets)
- Stochastic net models
- Verification and model checking using nets
- Process discovery and conformance checking
- Computer tools for nets
- Standardisation of nets
- Experience reports describing applications of nets to different kinds of systems and application fields, e.g.:

  flexible manufacturing systems   office automation
  real-time systems   workflows
  embedded systems   process mining
  biological systems   supervisory control
  health and medical systems   railway networks
  Internet and Web services   environmental systems
  e-commerce and trading   hardware
  programming languages   telecommunications
  protocols and networks   performance evaluation
  component based development   operations research

General topics of interest related to concurrency

- Application of concurrency to system design:

  formal models (e.g., dataflow models, communicating automata, process algebras, modal and temporal logics) for designing computer systems with concurrent behaviour

  applied research aimed at designing computer systems which exhibit 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 developments in the theory of concurrency
- Modelling of hardware and biological systems

Paper Submission

Two kinds of papers can be submitted:

- **Regular papers (max. 20 pages excluding references)** 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.
- **Tool papers (max. 10 pages excluding references)** describing a computer tool based on Petri nets (not an application of the tool or the theory behind the tool). 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.

Papers must be written in English using the Springer LNCS format: https://www.springer.com/gp/computer-science/lncs/conference-proceedings-guidelines, including line numbers (*e.g.* lineno LaTeX package) and submitted electronically (as a PDF file) by the deadline indicated at the top of this Call for Papers using EasyChair

<p align="center">https://easychair.org/conferences/?conf=petrinets2023</p>

Tool Exhibition

An exhibition of Petri net tools will take 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 chairs by the deadline stated at the top of this Call for Papers. They should include a link to the Web pages for the tool (or a short description of the tool). The demonstrators should bring their own laptops, while the organisers may be requested to give access to the Internet.

Courses, Workshops and Tutorials

The main conference takes place from Wednesday 28 to Friday 30. The three days before the main conference also offer a wide range of activities. The **Petri Net Course** takes place from Sunday 25 to Tuesday 27. It offers a thorough introduction to Petri nets in four half-day modules on Sunday 25 and Monday 26, and a full-day tutorial module on Tuesday 27. For successful participation in the entire course, including preparation and examination, three credit points (ECTS) will be awarded. Each module of the course can also be taken separately, without any credit. Detailed descriptions of Workshops and Tutorials will be made 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 Workshops chairs via email no later than January 13, 2023.

Organisation

Programme committee co-chairs

Luis Gomes
    NOVA University Lisbon, Portugal
Robert Lorenz
    Universität Augsburg, Germany

General organising chairs

Anikó Costa
    NOVA University Lisbon, Portugal
Isabel Sofia Brito
    Instituto Politécnico de Beja, Portugal

Tool exhibition chairs:

Filipe Moutinho
    NOVA University Lisbon, Portugal
Fernando Pereira
    ISEL, Portugal

Steering committee

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G. Ciardo, USA	C. Lin, China
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J. Kleijn, The Netherlands	A. Valmari, Finland
F. Kordon, France	A. Yakovlev, UK
M. Koutny, UK (chair)	

Workshops co-chairs

Susanna Donatelli
    Università di Torino, Italy
Robin Bergenthum
    Fern Universität, Germany

Petri Net Course and Tutorials co-chairs

Jörg Desel
    Fern Universität in Hagen, Germany
Jetty Kleijn
    Leiden University, The Netherlands

Programme committee

Elvio Amparore, Italy	João Miguel Fernandes, Portugal	Andrew Miner, USA
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