



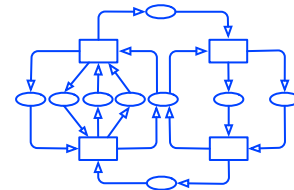
## Call for Papers and Announcement PETRI NETS 2022

### 43rd INTERNATIONAL CONFERENCE ON APPLICATION AND THEORY OF PETRI NETS AND CONCURRENCY

with a special track on Application of  
Concurrency to System Design (ACSD)

19–24 June 2022, Bergen, Norway

[www.hvl.no/petrinets2022](http://www.hvl.no/petrinets2022)



|                                     |                      |
|-------------------------------------|----------------------|
| Abstract submission                 | January 13, 2022 (*) |
| Submission of papers                | January 20, 2022 (*) |
| Notification                        | March 5, 2022        |
| Final version due                   | March 18, 2022 (*)   |
| Registration for Tool Presentations | May 31, 2022         |
| Petri nets course and PhD school    | June 19–20, 2022     |
| Workshops and Tutorials             | June 20–21, 2022     |
| Main Conference                     | June 22–24, 2022     |

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

The 43rd annual international Petri Nets conference will be organised by the **Software Engineering Research Group** at **Western Norway University of Applied Sciences** and will be held at Campus Bergen.

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** are sought. Authors from the **applications of concurrency to systems design** are encouraged to submit to this special track.

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 **Fundamenta Informaticae**.

#### General topics of interest 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 developments in the theory of concurrency
- Modelling of hardware and biological systems

#### 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    |

**Special track on ACSD (Application of Concurrency to System Design)** Both theoretical and applied research about formal approaches (in a broad sense) to designing computer systems that exhibit concurrent behaviour. The formal models of computation and concurrency for the above systems and problems are not limited by Petri nets, but also include models like dataflow models, communicating automata, process algebras, graph rewriting systems, state charts, MSCs, modal and temporal logics.

## 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: <http://www.springer.de/comp/lncs/authors.html>, including line numbers (*e.g.* `lineno` L<sup>A</sup>T<sub>E</sub>X package) and submitted electronically (as a PDF file) by the deadline indicated at the top of this Call for Papers using EasyChair: <https://easychair.org/conferences/?conf=petrinets2022>

## 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 22 to Friday 24. The three days before the main conference also offer a wide range of activities. The **Petri Net Course** takes place from Sunday 19 to Tuesday 21. It offers a thorough introduction to Petri nets in four half-day modules on Sunday 19 and Monday 20, and a full-day tutorial module on Tuesday 21. 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, 2022.

## Organisation

### Programme committee co-chairs

Laure Petrucci  
University Paris 13, France  
Luca Bernardinello  
University de Milano Bicocca, Italy  
Jörg Desel (ACSD track)  
Fern Universität in Hagen, Germany  
Alex Yakovlev (ACSD track)  
University of Newcastle-upon-Tyne, UK

### Steering committee

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| J. Desel, Germany          | W. Penczek, Poland            |
| S. Donatelli, Italy        | L. Pomello, Italy             |
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| F. Kordon, France          | A. Valmari, Finland           |
| M. Koutny, UK (chair)      | A. Yakovlev, UK               |

### Workshops co-chairs

Gianfranco Ciardo  
Iowa State University, USA  
Robin Bergenthum  
Fern Universität, Germany

### General organising chairs

Lars Michael Kristensen  
Western Norway University of Applied Sciences  
Violet Ka I Pun  
Western Norway University of Applied Sciences

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Artem Polyvyanyy, Australia  
Pierre-Alain Reynier  
Arnaud Sangnier, France  
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