



**Call for Papers and Announcement
Petri Nets 2021**

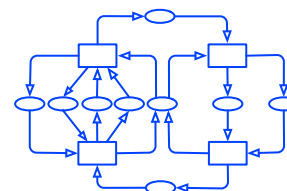
**42nd INTERNATIONAL CONFERENCE
ON APPLICATION AND THEORY OF
PETRI NETS AND CONCURRENCY**

**& special track on Application of Concurrency
to System Design (ACSD)**

21–25 June 2021, Paris, France

Additional information about the conference will be published
via <http://conf-2021.petrinet.net>

Contact: pn2021@petrinet.net



Important dates:

Abstract submission	January 13, 2021 (*)
Submission of papers	January 20, 2021 (*)
Notification	March 5, 2021
Final version due	March 19, 2021 (*)
Participation in Tool Exhibition	May 31, 2021
Workshops and Tutorials	June 21–22, 2021
Main Conference	June 23–25, 2021

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

The **42nd annual international Petri Nets conference** will be organised by the **LoVe (Logics and Verification)** team of the computer science laboratory **LIPN (Laboratoire d'Informatique de Paris Nord)**, **University Sorbonne Paris Nord** and **CNRS**, jointly with members of the **Paris region MeFoSyLoMa group (Méthodes Formelles pour les Systèmes Logiciels et Matériels)**. The conference will take place at the **Maison des Sciences de l'Homme**, which fosters and promotes research in humanities and social sciences. 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 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

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.



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 (coloured nets, timed nets, etc.)
- 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
 - real-time systems
 - embedded systems
 - biological systems
 - health and medical systems
 - environmental systems
 - hardware
 - telecommunications
 - railway networks
 - component based development
 - office automation
 - workflows
 - process mining
 - supervisory control
 - protocols and networks
 - Internet and Web services
 - e-commerce and trading
 - programming languages
 - performance evaluation
 - operations research



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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^AT_EX 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=petrinets2021>

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 23 to Friday 25. The three days before the main conference also offer a wide range of activities. The **Petri Net Course** takes place from Sunday 20 to Tuesday 22. It offers a thorough introduction to Petri nets in four half-day modules on Sunday 20 and Monday 21, and a full-day tutorial module on Tuesday 22. 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 and Tutorials chairs via email no later than January 10, 2021.

Organisation

Programme Committee co-chairs:

Didier Buchs

University of Geneva, Switzerland

Josep Carmona

Universitat Politècnica de Catalunya, Spain

Jörg Desel (ACSD track)

FernUniversität in Hagen, Germany

Alex Yakovlev (ACSD track)

University of Newcastle-upon-Tyne, UK

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Workshops co-chairs:

Gianfranco Ciardo

Iowa State University, USA

Daniel Moldt

Universität Hamburg, Germany

Thomas Châtain (organisation)

LSV, CNRS, ENS Paris-Saclay, France

pn2021-workshops@petrinet.net

General chairs:

Laure Petrucci

LIPN, CNRS,

Université Sorbonne Paris Nord, France

Étienne André

LORIA, CNRS,

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Tool exhibition chairs:

Benoît Barbot

LACL, Université Paris 12, France

Alexandre Duret-Lutz

LRDE, EPITA, France

pn2021-tool@petrinet.net

Steering committee:

W. van der Aalst, Germany

G. Ciardo, USA

J. Desel, Germany

S. Donatelli, Italy

S. Haddad, France

K. Hiraishi, Japan

J. Kleijn, The Netherlands

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M. Koutny, UK (chair)

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L. Pomello, Italy

W. Reisig, Germany

G. Rozenberg, The Netherlands

M. Silva, Spain

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Jaco van de Pol, Denmark

Dumitru Potop, France

Pierre-Alain Reynier, France

Arnaud Sangnier, France

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