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Didier Buchs · Josep Carmona (Eds.)

Application and Theory of Petri Nets and Concurrency

42nd International Conference, PETRI NETS 2021
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Proceedings

Editors
Didier Buchs
Université de Genève
Carouge, Switzerland

Josep Carmona 
Universitat Politècnica de Catalunya
Barcelona, Spain

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Preface

This volume constitutes the proceedings of the 42st International Conference on Application and Theory of Petri Nets and Concurrency (Petri Nets 2021). This series of conferences serves as an annual meeting place to discuss progress in the field of Petri nets and related models of concurrency. These conferences provide a forum for researchers to present and discuss both applications and theoretical developments in this area. Novel tools and substantial enhancements to existing tools can also be presented.

Petri Nets 2021 included a section devoted to Application of Concurrency to System Design, which was in the past a separate event. The final selection of this track was made by Jörg Desel and Alex Yakovlev.

The event was organized by the LoVe (Logics and Verification) team of the computer science laboratory LIPN (Laboratoire d'Informatique de Paris Nord) at the University Sorbonne Paris Nord and CNRS, along with members of the Paris region MeFoSyLoMa (Méthodes Formelles pour les Systèmes Logiciels et Matériels) group. The conference was supposed to take place in the chosen area of Campus Condorcet, the new international research campus for humanities and social sciences in Paris, France.

Unfortunately, because of the coronavirus epidemic, the event was organized as a virtual conference. We would like to express our deepest thanks to the Organizing Committee chaired by Laure Petrucci and Etienne André for the time and effort invested in the organization of this event.

This year, 39 papers were submitted to Petri Nets 2020 by authors from 16 different countries. Each paper was reviewed by at least three reviewers. The discussion phase and final selection process by the Program Committee (PC) were supported by the EasyChair conference system. From regular papers and tool papers, the PC selected 22 papers for presentation: 20 regular papers and 2 tool papers. After the conference, some of these authors were invited to submit an extended version of their contribution for consideration in a special issue of a journal.

We thank the PC members and other reviewers for their careful and timely evaluation of the submissions and the fruitful constructive discussions that resulted in the final selection of papers. The Springer LNCS team (notably Anna Kramer) provided excellent and welcome support in the preparation of this volume.

Due to the virtual format of the event, the keynote presentations of the 2020 edition were postponed until this 2021 edition. They were given by Serge Abiteboul, Luca Bernardinello and Jérôme Leroux. Alongside Petri Nets 2021, the following workshops and events took place: the 11th edition of the Model Checking Contest (MCC 2021), Algorithms and Theories for the Analysis of Event Data (ATAED 2021), and Petri Nets and Software Engineering (PNSE 2021).

We hope you enjoy reading the contributions in this LNCS volume.

June 2021

Didier Buchs
Josep Carmona

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