

27th International Conference on Principles and Practice of Constraint Programming

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Conference)

Edited by

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■ Preface

This volume is the collection of papers presented at the 27th International Conference on Principles and Practice of Constraint Programming (CP 2021), held online during October 25–29, 2021. The conference was meant to be hosted by LIRMM in Montpellier, France. Yet, the evolving pandemic prompted us to revise those plan and opt for an online format to ensure that the conference would remain accessible to as many as possible despite the ongoing health crisis.

There were 129 submissions to the conference. In the end, the Program Committee selected 57 papers spread across several thematic tracks meant to encourage as diverse a participation as possible. I wish to extend my thanks to the *authors of all submissions*. Your manuscripts offered a rich collection of exciting ideas, directions and ongoing work that embody a living community. Laying down one’s idea for peer review is both delicate and difficult, yet critical to the existence of any scientific community. Irrespective of the final outcome for your submission, I wish to thank you all for participating in the process.

The program of the conference featured 3 invited talks, 4 tutorials and 5 thematic tracks featuring both short and long papers. The themes of the tracks are:

- | | |
|----------------------------|---|
| ■ Technical Track | Chair: Laurent Michel |
| ■ Application Track | Chairs: Louis-Martin Rousseau, Michele Lombardi |
| ■ Operation Research Track | Chair: Willem-Jan van Hoeve |
| ■ Machine Learning Track | Chair: Michela Milano |
| ■ Verification Track | Chair: Nadjib Lazaar |

The respective chairs deserve all our support and thanks for managing tracks and providing the necessary oversight throughout the review process.

The Senior Program Committee members were an integral part of the effort as they contributed to the reviewing efforts, but also guided the conversations during the discussion period and produced meta-reviews as summaries of the discussions. They played a key role in providing the necessary input to the selection. The process used 4 weeks to author reviews, 1 week to collect author feedback and 2 weeks to discuss all papers and reach decisions. The process was capped with a synchronous online meeting to finalize the selection. I wish to extend my gratitude to all SPC members with a special nod for attending the live meetings.

The reviewer assignment was produced with an IP model developed by Thomas Schiex and Simon de Givry in 2019, extended by Helmut Simonis in 2020 and further tweaked this year. Despite the tight schedule and the offered extensions, the pool of reviewers delivered hundreds of detailed evaluations (at least 3, sometimes 4) for all the submissions and engaged in lively discussions afterwards. The dedication of such a large group of individuals must be acknowledged as this function is essential to the community.

The conference itself cannot thrive without the active engagement of a whole slate of people who took key responsibilities. I wish to thank Andre Cire (University of Toronto) serving as Workshop Chair, Anastasia Paparizou (CNRS, CRIL, Lens, France) as our Tutorial Chair, Jeremias Berg (University of Helsinki, Finland) who managed the Doctoral Program as well as Zeynep Kiziltan (University of Bologna, Italy) who orchestrated all the video preparation and distribution. While the conference is online, rather than in Montpellier, Carmen Gervet and Philippe Vismara (Montpellier, LIRMM, France) played a critical role



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for the overall organization and all the logistics that accompany a conference. Their team included Véronique Rousseau (Communication), Gilles Trombettoni and Clément Carbonnel (Web). Their role and time commitment to enable an online conference is greatly appreciated!

Let me close by extending my thanks to the Executive Committee of the Association for Constraint Programming for their support and their trust in organizing the conference.

July 2021, Tolland CT, USA

Laurent D. Michel

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