PAAR-2022
Eighth Workshop on Practical Aspects of Automated Reasoning

Preface

This volume contains the papers presented at the Eighth Workshop on Practical Aspects of Automated Reasoning (PAAR-2022). The workshop was held on August 11-12, 2022 in association with the Federated Logic Conference (FLoC) / International Joint Conference on Automated Reasoning (IJCAR 2022) in Haifa, Israel.

PAAR provides a forum for developers of automated reasoning tools to discuss and compare different implementation techniques, and for users to discuss and communicate their applications and requirements. The workshop will bring together different groups to concentrate on practical aspects of the implementation and application of automated reasoning tools. It will allow researchers to present their work in progress, and to discuss new implementation techniques and applications.

The purpose of PAAR is to help the community understand how to build useful and powerful reasoning systems in practice, and how to apply existing systems to real problems.

PAAR 2022 received fifteen submissions. Each submission was reviewed by at least three program committee members. Fourteen papers were accepted for presentation over two days, 12 as regular papers.

The final workshop session has been co-located with the European Research Network on Digital Proofs (EuroProofNet) Working Group 2 kickoff meeting. The aim of WG 2 is to promote the output of detailed, checkable proofs from automated theorem provers.

The PAAR and workshop organisers would like to thank the authors and participants the workshop for making this very successful event possible. Our thanks also go to the program committee members and the external reviewers for their considerable effort to provide thorough and constructive reviews. As in all years, we are indebted to the EasyChair team for the unfailing availability of the EasyChair Conference System. We are grateful to the CEUR team for publishing our proceedings. We thank the WG 2 of the COST action EuroProofNet for the collaboration.

August 2022   Boris Konev, Claudia Schon, Alex Steen (PAAR 2022 Chairs)

CEUR Workshop Proceedings (CEUR-WS.org)

Program Committee

Simon Cruanes	Imandra
Hans de Nivelle	School of Engineering and Digital Sciences, Nazarbayev University
Gabriel Ebner	Vrije Universiteit Amsterdam
Pascal Fontaine	Université de Liège, Belgium
Ulrich Furbach	University of Koblenz
Cezary Kaliszyk	University of Innsbruck
Boris Konev (co-chair)	University of Liverpool
Daniel Le Berre	CNRS - Université d'Artois
Ondrej Lengal	Brno University of Technology
Tomer Libal	American University of Paris
Cláudia Nalon	University of Brasília
Jens Otten	University of Oslo
Philipp Ruemmer	University of Regensburg
Renate A. Schmidt	The University of Manchester
Claudia Schon (co-chair)	Universität Koblenz-Landau
Stephan Schulz	DHBW Stuttgart
Mihaela Sighireanu	LMF, ENS Paris-Saclay, Université Paris-Saclay and CNRS
Alexander Steen (co-chair)	University of Greifswald
Frieder Stolzenburg	Harz University of Applied Sciences
Martin Suda	Czech Technical University in Prague
Sophie Tourret	INRIA and MPI for Informatics
Petar Vukmirović	Vrije Universiteit Amsterdam
Sarah Winkler	Free University of Bozen-Bolzano
Aleksandar Zeljić	Stanford University

Additional reviewers

Abdelhamid Abidi
Filip Bártek
Jan Jakubuv
Ullrich Hustadt