

SAFA 2024

*International Workshop on Systems and Algorithms
for Formal Argumentation*



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Preface

International Workshop on Systems and Algorithms for Formal Argumentation

In the field of Knowledge Representation and Reasoning, formal argumentation studies questions like the representation of arguments, their interactions, and the evaluation of their acceptability. These formal models can be applied to various domains such as medicine, accounting, chemistry, and law, as well as other areas that benefit from automated decision making. In many cases, argument-based reasoning has strong similarities with the fields of non-monotonic reasoning and logic programming, which implies that it shares their high complexity.

For this reason, the development of systems and algorithms for argumentative reasoning has become an important part of the field, as can be witnessed by the success of the International Competition on Computational Models of Argumentation (ICMA), organised biennially since 2015. This workshop complements the competition, and provides a forum to discuss and present novel approaches and ideas related to algorithmic approaches to all aspects of argumentation. Co-located with the International Conference on Computational Models of Argument (COMMA), a first workshop had been organised in Potsdam (Germany) in 2016, a second one in Warsaw (Poland) in 2018, a third one virtually in 2020, and a fourth one in Cardiff (United Kingdom).

In this fifth edition, we received nine submissions which were all accepted as regular papers for this volume after a peer-review. Additionally, this volume contains an abstract of the invited talk on “Reasoning in Structured Argumentation: Assumption-based Argumentation and ASPIC+” by Johannes P. Wallner.

September 2024

AnneMarie Borg
Stefan Ellmauthaler
Jean-Guy Mailly
Andreas Niskanen
(chairs)

Program Committee

PC Co-Chairs

- AnneMarie Borg (Utrecht University, Netherlands);
- Stefan Ellmauthaler (TU Dresden, Germany);
- Jean-Guy Mailly (Université Toulouse Capitole, France);
- Andreas Niskanen (University of Helsinki, Finland).

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- Francesco Santini (University of Perugia, Italy);
- Mauro Vallati (University of Huddersfield, United Kingdom);
- Johannes P. Wallner (TU Graz, Austria).

Sub-reviewers

- Marco Cuccarini (University of Perugia, Italy);
- Carlo Taticchi (University of Perugia, Italy).