

**Ninth International Conference on  
Computational Models of Argument (COMMA 2022)  
Cardiff, United Kingdom, 14th-16th September 2022**

**THIRD CALL FOR PAPERS**

**<https://comma22.cs.cf.ac.uk>**

The International Conference on Computational Models of Argument (COMMA) is a regular forum for presentation and exchange of the latest research results concerning theory and applications of computational argumentation. After the successful editions in Liverpool (2006), Toulouse (2008), Desenzano del Garda (2010), Vienna (2012), Pitlochry (2014), Potsdam (2016), Warsaw (2018) and Perugia (2020), the biennial COMMA event will be hosted by the School of Computer Science and Informatics of the Cardiff University. COMMA 2022 will be preceded by the fifth edition of the Summer School on Argumentation (SSA 2022). In addition to the main conference track, COMMA 2022 will include system demonstrations, as well as workshops devoted to specific argumentation-related themes, for both of which we invite proposals.

COMMA topics include, but are not limited to:

- Formal, semi-formal and informal models for argumentation
- Argumentation and Non-monotonic Reasoning
- Dialogue based on argumentation
- Strategies in argumentation
- Argumentation and game theory
- Argumentation and probability
- Argumentation and narrative
- Argumentation-based explanation
- Argumentation and computational linguistics
- Argument mining
- Computational properties of argumentation
- Reasoning about action and time with argumentation
- Decision making based on argumentation
- Argumentation in agent and multi-agent systems
- Argumentation for coordination and coalition formation
- Argumentation-based negotiation
- Argumentation, trust, and reputation
- Argumentation and human-computer interaction
- Systems for learning through argument
- Implementation of argumentation systems
- Tools for supporting argumentation
- Demonstrations of innovative working applications and tools

# COMMA WORKSHOPS

**12<sup>th</sup>-13<sup>th</sup> of September 2022**

We are happy to announce that the following workshops will take place prior to the COMMA 2022 conference:

- Workshop on Computational Models of Natural Argument [CMNA 2022](#)
- 1st International Workshop on Argumentation for eXplainable AI [ArgXAI 2022](#)
- 1st International Workshop on Argumentation & Machine Learning [ArgML 2022](#)
- 4th International Workshop on Systems and Algorithms for Formal Argumentation [SAFA 2022](#)

## Important Dates

- Paper submission deadline: 8<sup>th</sup> of July 2022
- Notification of acceptance and other deadlines: workshop-dependent

## COMMA CALL FOR PAPERS

We invite submission of original and unpublished work. Parallel submission to journals or other conferences or workshops with published proceedings is not permitted.

The conference includes a Regular Track and an Innovative Applications Track. As to the latter, we encourage the submission of original papers about innovative applications, e.g., in law, medicine, e-democracy, risk assessment, intelligent user interfaces, recommender systems, argument mining etc. Innovative applications papers will be assessed in an equally rigorous reviewing procedure as regular track papers. Reviewing is single-blinded.

Paper submission, in PDF format, is managed through EasyChair:

**<https://easychair.org/conferences/?conf=comma2022>**

The proceedings of the conference will be published by IOS Press as an open-access book.

Authors should prepare their submission following the instructions given by IOS Press (<http://www.iospress.nl/service/authors/latex-and-word-tools-for-book-authors/>).

The length of each submission for both Regular and Innovative Applications papers must not exceed **12 pages**.

For papers submitted to the Innovative Applications Track please insert: "Submitted to IAT." at the beginning of the Latex `\thanks{}` footnote in the first page.

## Important Dates

- Paper submission deadline: ~~11 April 2022~~ 29<sup>th</sup> of April 2022
- Notification of acceptance: ~~17 June 2022~~ 24<sup>th</sup> of June 2022
- Camera-ready versions due: 15 July 2022

# CALL FOR DEMONSTRATIONS

A session will be organized for the demonstration of innovative working applications and tools. Systems of interest include (but are not limited to):

- Innovative applications in law, medicine, e-democracy, risk assessment, intelligent user interfaces, recommender systems
- Argumentation-based reasoners
- Systems for generating arguments from knowledge bases
- Systems for editing, presenting, and judging arguments and counterarguments
- Collaborative and social systems based on argumentation
- Simulations of dialogue-based argumentation
- Argumentation-based agents and multi-agent systems
- Decision support systems based on argumentation
- Argument mining systems
- Argumentation-based systems for explainable decision making

All those intending to demonstrate a system should notify the demonstrations coordinator Richard Booth (boothr2@cardiff.ac.uk) by e-mail no later than **31 March 2022**, specifying whether the demo is connected to a paper in a conference track.

Where a demonstration is **not** connected to a paper in a track, a **two-page** extended abstract about the system must also be submitted for review. Accepted extended abstracts will be published in the conference proceedings. For those demonstrations that are connected to a paper in the standard track or innovative applications track, no separate abstract about the demonstration should be submitted.

The submission site, format and deadlines for extended abstracts are the same as for regular papers.

## Important Dates

- ~~Deadline for notification to the demo coordinator: 31 March 2022 (PASSED)~~
- Paper submission deadline: ~~11 April 2022~~ 29<sup>th</sup> of April 2022
- Notification of acceptance: ~~17 June 2022~~ 24<sup>th</sup> of June 2022
- Camera-ready versions due: 15 July 2022

## Organization

- Program chair:
  - Francesca Toni (Imperial College London, United Kingdom)
- Conference chair:
  - Sylwia Polberg (Cardiff University, United Kingdom)
- Local organizing committee:
  - Martin Caminada (Cardiff University, United Kingdom)
  - Richard Booth (Cardiff University, United Kingdom)
  - Hiroyuki Kido (Cardiff University, United Kingdom)
- Demonstration coordinator:
  - Richard Booth (Cardiff University, United Kingdom)

## Contact

- Any queries: [comma2022@cardiff.ac.uk](mailto:comma2022@cardiff.ac.uk)
- Sylwia Polberg [polbergs@cardiff.ac.uk](mailto:polbergs@cardiff.ac.uk)

## Invited Speakers

- Prof Paul Dunne (University of Liverpool, United Kingdom)
- Prof Iryna Gurevich (Technical University of Darmstadt, Germany)
- Prof Antonis Kakas (University of Cyprus, Cyprus)