

TERMGRAPH 2022

12th International Workshop on Computing with Terms and Graphs

Technion, Haifa, Israel (in presence)

Monday, 1 August 2022

<http://termgraph.org.uk/2022>

Topics of Interest

All aspects of term-/graph rewriting (term-graph and graph rewriting), and applications of graph transformations in programming, automated reasoning, and symbolic computation, such as, but not limited to:

- theory of first-order, and higher-order term-graph rewriting
- graph rewriting in lambda calculus (sharing graphs, optimality)
- term-/graph based models of computation
- graph grammars
- term-/graph based languages and modelling frameworks
- term-/graph rewriting tools: system descriptions, case studies
- applications of term-/graph rewriting in, and term-/graph rewriting aspects of:
 - (a) semantics and implementation of programming languages, (b) compiler construction, (c) interaction nets and proof nets, (d) software engineering, (e) automated reasoning and symbolic computation, (f) functional and logic programming, (g) pattern recognition, (h) bioinformatics.

Aim

We want to bring together researchers working in these areas, foster interaction, provide a forum for presenting new ideas and work in progress, and enable newcomers to learn about current activities in the field.

Submission

We invite submissions of *extended abstracts* of *at most 8 pages* in *EPTCS style* on the topics above, on:

- original work,
- tutorials,
- work in progress,
- system descriptions of term-/graph rewriting tools.

Papers have to be submitted on *EasyChair* via: <https://easychair.org/conferences/?conf=termgraph2022>.

Submissions will be judged on relevance, originality, correctness, usefulness. Preliminary proceedings will be available at the workshop.

Important Dates

- Submission deadline: **Tuesday, 10 May 2022 (AoE)**
- Notification: Tuesday, 7 June, 2022
- Program publication: Wednesday, 15 June, 2022
- Final version (pre-proceed.): Tuesday, 21 June 2022
- Workshop: Monday, 1 August 2022

Invited Speakers

- **Jörg Endrullis**, Vrije Universiteit Amsterdam, The Netherlands
- **Delia Kesner** Universite Paris Cite, IRIF/CNRS, and Institut Universitaire de France, France

Program Committee

- Sandra Alves, Universidade do Porto, Portugal
- Martin Avanzini, INRIA Sophia Antipolis, France
- Patrick Bahr, IT University Copenhagen, Denmark
- Thierry Boy de la Tour, CNRS, France
- Clemens Grabmayer (**chair**), GSSI, Italy
- Wolfram Kahl, McMaster University, Canada
- Ian Mackie, LIX, France
- Koko Muroya, Kyoto University, Japan
- Femke van Raamsdonk, VU Amsterdam, The Netherlands
- Adrian Rutle, Western Norway University, Norway
- Kazunori Ueda, Waseda University, Japan

Post-Proceedings

After the workshop, authors will be invited to submit a *15-pages paper* of their paper for the publication of the Workshop Post-Proceedings in *Electronic Proceedings in Theoretical Computer Science (EPTCS)*.

These submissions will undergo a second round of reviewing with: submission in the mid of October 2022, notification in December 2022/January 2022, publication in February/March 2023.

Contact

Clemens Grabmayer clemens.grabmayer@gssi.it