

Report on DCFS 2023:
25th International Conference on Descriptive Complexity of Formal Systems
Potsdam, July 4–6, 2023

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The 25th DCFS took place in Potsdam, Germany, from July 4 to 6, 2023. It was organized jointly by the IFIP Working Group 1.02 on Descriptive Complexity and by the Institute of Computer Science at the University of Potsdam.



Group Photo of Participants in Park 'Sanssouci'

At the conference, 16 scientific talks were given, 3 of them by invited speakers, namely

- Pascal Caron (University of Rouen, France) who spoke about 'Operational state complexity revisited: The contribution of monsters and modifiers',
- Friedrich Otto (University of Kassel, Germany) who gave a talk 'On the influence of the various parameters of the Restarting Automaton on its expressive capacity and descriptive complexity',
- Rogério Reis (University of Porto, Portugal) with a talk titled 'Size matters, but let's have it on average'.

The other contributions (all peer reviewed) were written by 35 authors. All papers are contained in the proceedings, edited by Henning Bordihn, Nicholas Tran, and György Vaszil, and published by Springer as volume 13918

in the series *Lecture Notes in Computer Science*. Full versions of selected papers will be published in a special issue of the journal *Information and Computation*.

On the conference website, you can find the program with all talks:

<https://www.cs.uni-potsdam.de/dcfs2023/>

Besides the scientific sessions, there were two more: the Business Meeting of the IFIP Working Group 1.02 and a Special Session on the occasion of the 25th edition of DCFS where Jürgen Dassow (Otto-von-Guericke University of Magdeburg, Germany), one of the co-founders of the DCFS conference series, gave a ceremonial address. In the Business Meeting, Martin Kutrib (Justus-Liebig-Universität Giessen) as the chair of the working group gave an overview about activities of the group as well as the past and future of the conference series DCFS. He also announced that Rogério Reis will soon take over the chair.

The history of the conference series DCFS and other information can be found at the homepage:

<http://www.informatik.uni-giessen.de/dcfs/>

As social events, we had a tour through Sanssouci Park very well prepared and guided by students of the University Potsdam as well as a great conference dinner.

We thank everybody, in particular Henning Bordihn and the local organizers, who made the conference a successful event. The next DCFS will take place in Santa Clara, California, USA, organized by Nicholas Tran. We invite all readers of this report to submit papers to DCFS 2024 and to take part in the conference.