

Report on DCFS 2022:
**24th International Conference on Descriptive Complexity of Formal
Systems**
Debrecen, Hungary, August 29–31, 2022

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The 24th DCFS took place in Debrecen, Hungary, from August 29 to 31, after the NCMA and before the MCU at the same place. It was organized jointly by the IFIP Working Group 1.02 on Descriptive Complexity and by the Faculty of Informatics at the University of Debrecen.



Debrecen City Center

At the conference, 18 scientific talks were given, 4 of them by invited speakers, namely

- Galina Jirasková (Slovak Academy of Sciences, Košice, Slovakia) who spoke about ‘Operations on unambiguous finite automata’ on the first day,
- Mikołaj Bojańczyk (University of Warsaw, Poland) with a talk on ‘Polyregular functions’ in the morning of the second day,
- Szabolcs Iván (University of Szeged, Hungary) who spoke about ‘Scattered context-free order types’ in the afternoon of the second day, and
- Stefano Crespi Reghizzi (Polytechnic University of Milan, Italy) who gave a talk on ‘The alphabetic complexity in homomorphic definitions of word, tree, and picture languages’ on the third day.

The other 14 contributions (all peer reviewed) were written by 33 authors. All papers are contained in the proceedings, edited by Yo-Sub Han and György Vaszil, and published by Springer as volume 13439 in the series *Lecture Notes in Computer Science*. Full versions of selected papers will be published in a special issue of the journal *Theoretical Computer Science*.

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

<https://konferencia.unideb.hu/en/dcfs-2022>

Besides the scientific sessions, there were two more: the Business Meeting of the IFIP Working Group 1.02 and a Special Session to honour four scientists who passed away in the last three years and who had a strong connection to the research area of this conference. In four emotional presentations, colleagues and friends honoured Janusz Brzozowski (presented by Rogério Reis), Helmut Jürgen- gensen (by Henning Bordihn), Alica Kelemenová (by Erzsébet Csuhaj-Varjú), and Detlef Wotschke (by Andreas Malcher).

After the Business Meeting where Martin Kutrib 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, a social meeting followed which consisted of a visit at the Center for Modern and Contemporary Art and a great conference dinner.

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

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

We thank everybody, in particular the local organizers, who made the conference a successful event. The next DCFS will take place in Potsdam, Germany, organized by Henning Bordihn. We invite all readers of this report to submit papers to DCFS 2023 and to come to Potsdam in next July.