

Call for Papers

AFL 2017 – 15th International Conference on Automata and Formal Languages

September 4 - 6, 2017, Debrecen, Hungary

<http://www.inf.unideb.hu/afl2017/>

Invited speakers:

Paola Bonizzoni (Milano, Italy)
Henning Bordihn (Potsdam, Germany)
Szilárd Zsolt Fazekas (Akita, Japan)
José M. Sempere (Valencia, Spain)
Akihiro Yamamura (Akita, Japan)

Program committee:

Francine Blanchet-Sadri (Greensboro, USA)
Erzsébet Csuhaj-Varjú (Budapest, Hungary) *co-chair*
Jürgen Dassow (Magdeburg, Germany)
Pál Dömösi (Debrecen, Hungary) *co-chair*
Henning Fernau (Trier, Germany)
Zoltán Fülöp (Szeged, Hungary)
Viliam Geffert (Kosice, Slovakia)
Marian Gheorghe (Bradford, UK)
Oscar H. Ibarra (Santa Barbara, CA, USA)
Szabolcs Iván (Szeged, Hungary)
Galina Jiraskova (Kosice, Slovakia)
Juhani Karhumäki (Turku, Finland)
Alica Kelemenová (Opava, Czech Republic)
Miklós Krész (Szeged, Hungary)
Martin Kutrib (Giessen, Germany)
György Maróti (Veszprém, Hungary)
Andreas Maletti (Stuttgart, Germany)
Alexander Meduna (Brno, Czech Republic)
Victor Mitrana (Bucharest, Romania; Madrid, Spain)
Benedek Nagy (Famagusta, Cyprus)
Christopher Nehaniv (Hertfordshire, UK)
Friedrich Otto (Kassel, Germany)
Gheorghe Paun (Bucharest, Romania)
Giovanni Pighizzini (Milano, Italy)
Agustín Riscos-Nunez (Sevilla, Spain)
Jeffrey Shallit (Waterloo, Canada)
Petr Sosik (Opava, Czech Republic)
Bianca Truthe (Giessen, Germany)
György Vaszil (Debrecen, Hungary) - *co-chair*
Laurent Vuillon (Chambéry, France)
Claudio Zandron (Milano, Italy)

Important dates:

Submissions: May 15, 2017
Notification of acceptance: July 1, 2017
Final version: July 15, 2017

Please contact:

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Url: <http://www.inf.unideb.hu/afl2017/>

The AFL conferences cover all aspects of automata and formal languages, including theory and applications. The conference series was initiated by Prof. István Peák (1936-1989), he organized the AFL conferences in 1980, 1982, 1984, 1986, 1988 and started the organization of AFL'90. In 1986 and 1988, the title of the conference was Automata, Languages and Programming Systems. Since 1990, the AFL conferences have been organized in every third year. The last conferences of the series were held in Vasszécény (1999), Debrecen (2002), Dobogókő (AFL'05), Balatonfüred (AFL 2008), Debrecen (AFL'11), and Szeged (AFL 2014). In 2017, the conference is organized by the University of Debrecen, and the Eötvös Loránd University of Budapest.

Aims and scope

The scientific program will consist of invited lectures and contributed presentations selected by the international Program Committee. Topics of interest include (but are not limited to) the following.

- Grammars, acceptors and transducers for strings, trees, graphs, arrays,
- algebraic theories for automata and languages,
- combinatorial properties of words and languages,
- formal power series,
- decision problems,
- efficient algorithms for automata and languages.

Relations to

- complexity theory and logic,
- picture description and analysis,
- quantum computing,
- cryptography,
- concurrency.

Applications of automata and language theory in

- biology,
- natural language processing,
- and other fields.

Submissions

Submissions must not exceed 15 pages (in EPTCS style and including bibliography). Simultaneous submissions of papers to any other conference with published proceedings or submitting previously published papers is not allowed. Only electronic submissions in PDF format are accepted. Information about the submission procedure is available on the conference webpage (<http://www.inf.unideb.hu/afl2017/>).

Proceedings, journal special issue

The proceedings of the workshop will appear as a volume in the series *Electronic Proceedings in Theoretical Computer Science (EPTCS)*. In addition, a special issue of the journal *International Journal of Foundations of Computer Science* will be devoted to selected papers of AFL 2017.