
**13th INTERNATIONAL CONFERENCE ON LANGUAGE AND AUTOMATA
THEORY AND APPLICATIONS**

LATA 2019

Saint Petersburg, Russia

March 25-29, 2019

Organized by:

Saint Petersburg State University
and

Institute for Research Development, Training and Advice, Brussels/London

<http://lata2019.irdta.eu/>

AIMS:

LATA is a conference series on theoretical computer science and its applications. LATA 2019 will reserve significant room for young scholars at the beginning of their career. It will aim at attracting contributions from classical theory fields as well as application areas.

VENUE:

LATA 2019 will take place in Saint Petersburg, whose historic centre is a UNESCO World Heritage Site. The conference site shall be the historical Twelve Collegia building (https://en.wikipedia.org/wiki/Twelve_Collegia), built in ca. 1740, which was used for the Russian government in the 18th century, and which has been the main building of Saint Petersburg State University since 1835.

SCOPE:

Topics of either theoretical or applied interest include, but are not limited to:

algebraic language theory
algorithms for semi-structured data mining
algorithms on automata and words
automata and logic
automata for system analysis and programme verification
automata networks
automatic structures
codes
combinatorics on words
computational complexity
concurrency and Petri nets

data and image compression
descriptive complexity
foundations of finite state technology
foundations of XML
grammars (Chomsky hierarchy, contextual, unification, categorial, etc.)
grammatical inference and algorithmic learning
graphs and graph transformation
language varieties and semigroups
language-based cryptography
mathematical and logical foundations of programming methodologies
parallel and regulated rewriting
parsing
patterns
power series
string processing algorithms
symbolic dynamics
term rewriting
transducers
trees, tree languages and tree automata
weighted automata

STRUCTURE:

LATA 2019 will consist of:

invited talks
peer-reviewed contributions

INVITED SPEAKERS: (to be completed)

Henning Fernau (University of Trier), Modern Aspects of Complexity within Formal Languages

Edward A. Lee (University of California, Berkeley), Observation, Interaction, Determinism, and Free Will

Vadim Lozin (University of Warwick), From Words to Graphs, and Back

Esko Ukkonen (University of Helsinki), Pattern Discovery in Biological Sequences

PROGRAMME COMMITTEE:

Krishnendu Chatterjee (Institute of Science and Technology Austria, AT)
Bruno Courcelle (University of Bordeaux, FR)
Manfred Droste (University of Leipzig, DE)
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Victor Mitran (Polytechnic University of Madrid, ES)
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Hans Ulrich Simon (Ruhr-University of Bochum, DE)
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Frank Stephan (National University of Singapore, SG)
Martin Sulzmann (Karlsruhe University of Applied Sciences, DE)
Jorma Tarhio (Aalto University, FI)
Stefano Tonetta (Bruno Kessler Foundation, IT)
Rob van Glabbeek (Data61, CSIRO, AU)
Margus Veales (Microsoft Research, US)
Mahesh Viswanathan (University of Illinois, Urbana-Champaign, US)
Mikhail Volkov (Ural Federal University, RU)
Fang Yu (National Chengchi University, TW)
Hans Zantema (Eindhoven University of Technology, NL)

ORGANIZING COMMITTEE:

Alexander Okhotin (Saint Petersburg, co-chair)
Manuel Parra-Royón (Granada)
Dana Shapira (Ariel)
David Silva (London, co-chair)

SUBMISSIONS:

Authors are invited to submit non-anonymized papers in English presenting original and unpublished research. Papers should not exceed 12 single-spaced pages (all included) and should be prepared according to the standard format for Springer Verlag's LNCS series (see <http://www.springer.com/computer/lncs?SGWID=0-164-6-793341-0>). If necessary, exceptionally authors are allowed to provide missing proofs in a clearly marked appendix.

Submissions have to be uploaded to:

<https://easychair.org/conferences/?conf=lata2019>

PUBLICATIONS:

A volume of proceedings published by Springer in the LNCS series will be available by the time of the conference.

A special issue of a major journal will be later published containing peer-reviewed substantially extended versions of some of the papers contributed to the conference. Submissions to it will be by invitation.

REGISTRATION:

The registration form can be found at:

<http://lata2019.irdta.eu/Registration.php>

DEADLINES (all at 23:59 CET):

Paper submission: November 11, 2018

Notification of paper acceptance or rejection: December 16, 2018

Final version of the paper for the LNCS proceedings: December 23, 2018

Early registration: December 23, 2018

Late registration: March 11, 2019

Submission to the journal special issue: June 29, 2019

QUESTIONS AND FURTHER INFORMATION:

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ACKNOWLEDGMENTS:

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IRDTA – Institute for Research Development, Training and Advice,
Brussels/London