
***** SUBMISSION DEADLINE EXTENDED: October 26 *****

**14th INTERNATIONAL CONFERENCE ON LANGUAGE AND AUTOMATA
THEORY AND APPLICATIONS**

LATA 2020

Milan, Italy

March 2-6, 2020

Co-organized by:

Department of Informatics, Systems and Communication
University of Milano-Bicocca

and

Institute for Research Development, Training and Advice
Brussels/London

<https://lata2020.irdta.eu>

AIMS:

LATA is a conference series on theoretical computer science and its applications. LATA 2020 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 2020 will take place in Milan, the third largest economy among European cities and one of the Four Motors for Europe. The venue will be:

University of Milano-Bicocca
Viale Piero e Alberto Pirelli 22
Building U6
Aula Mario Martini (Aula U6-04)
Milan

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, inductive 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 2020 will consist of:

invited talks
peer-reviewed contributions

INVITED SPEAKERS:

Eric Allender (Rutgers University), The New Complexity Landscape around Circuit Minimization

Laure Daviaud (City, University of London), About Decision Problems for Weighted Automata

Christoph Haase (University College London), Approaching Arithmetic Theories with Finite-state Automata

Artur Jeż (University of Wrocław), Recompression: Technique for Word Equations and Compressed Data

Jean-Éric Pin (CNRS), How to Prove that a Language Is Regular or Star-free?

Thomas Place (University of Bordeaux), Deciding Classes of Regular Languages: A Language Theoretic Point of View

PROGRAMME COMMITTEE:

Jorge Almeida (University of Porto, PT)

Franz Baader (Technical University of Dresden, DE)

Alessandro Barenghi (Polytechnic University of Milan, IT)

Marie-Pierre Béal (University of Paris-Est, FR)

Djamal Belazzougui (CERIST, DZ)

Marcello Bonsangue (Leiden University, NL)

Flavio Corradini (University of Camerino, IT)

Bruno Courcelle (University of Bordeaux, FR)

Laurent Doyen (ENS Paris-Saclay, FR)

Manfred Droste (Leipzig University, DE)

Rudolf Freund (Technical University of Vienna, AT)

Paweł Gawrychowski (University of Wrocław, PL)

Amélie Gheerbrant (Paris Diderot University, FR)

Tero Harju (University of Turku, FI)

Jeffrey Heinz (Stony Brook University, US)

Lane A. Hemaspaandra (University of Rochester, US)

Marcin Jurdziński (University of Warwick, UK)

Juhani Karhumäki (University of Turku, FI)

Jarkko Kari (University of Turku, FI)

Dexter Kozen (Cornell University, US)

François Le Gall (Kyoto University, JP)

Markus Lohrey (University of Siegen, DE)

Parthasarathy Madhusudan (University of Illinois, Urbana-Champaign, US)

Sebastian Maneth (University of Bremen, DE)

Nicolas Markey (IRISA, Rennes, FR)

Carlos Martín-Vide (Rovira i Virgili University, ES, chair)

Giancarlo Mauri (University of Milano-Bicocca, IT)

Victor Mitrana (University of Bucharest, RO)

Paliath Narendran (University at Albany, US)

Gennaro Parlato (University of Molise, IT)

Dominique Perrin (University of Paris-Est, FR)

Nir Piterman (Chalmers University of Technology, SE)

Sanguthevar Rajasekaran (University of Connecticut, US)

Antonio Restivo (University of Palermo, IT)

Wojciech Rytter (University of Warsaw, PL)

Kai Salomaa (Queen's University, CA)

Helmut Seidl (Technical University of Munich, DE)

William F. Smyth (McMaster University, CA)

Jiří Srba (Aalborg University, DK)
Edward Stabler (University of California, Los Angeles, US)
Benjamin Steinberg (City University of New York, US)
Frank Stephan (National University of Singapore, SG)
Jan van Leeuwen (Utrecht University, NL)
Margus Veanes (Microsoft Research, US)
Tomáš Vojnar (Brno University of Technology, CZ)
Mikhail Volkov (Ural Federal University, RU)
James Worrell (University of Oxford, UK)

ORGANIZING COMMITTEE:

Alberto Leporati (Milan, co-chair)
Sara Morales (Brussels)
Manuel Parra-Royón (Granada)
Rafael Peñaloza Nyssen (Milan)
Dana Shapira (Ariel)
David Silva (London, co-chair)
Bianca Truthe (Giessen)
Claudio Zandron (Milan, 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=lata2020>

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 the journal Information and Computation (Elsevier, 2018 JCR impact factor: 1.077) 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:

<https://lata2020.irdta.eu/registration>

DEADLINES (all at 23:59 CET):

Paper submission: October 26, 2019 – EXTENDED

Notification of paper acceptance or rejection: November 25, 2019

Final version of the paper for the LNCS proceedings: December 2, 2019

Early registration: December 2, 2019

Late registration: February 17, 2020

Submission to the journal special issue: June 6, 2020

QUESTIONS AND FURTHER INFORMATION:

david (at) irdta.eu

ACKNOWLEDGMENTS:

Università degli Studi di Milano-Bicocca

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