
**14th-15th INTERNATIONAL CONFERENCE ON LANGUAGE AND AUTOMATA
THEORY AND APPLICATIONS**

LATA 2020 & 2021

Milan, Italy

March 1-5, 2021

Co-organized by:

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

and

Institute for Research Development, Training and Advice
Brussels/London

<https://irdta.eu/lata2020-2021/>

* Extended submission deadline: October 26 *

AIMS:

LATA is a conference series on theoretical computer science and its applications. LATA 2020 & 2021 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.

LATA 2020 & 2021 will merge the scheduled program for LATA 2020, which could not take place because of the Covid-19 crisis, with a new series of papers submitted on this occasion.

VENUE:

LATA 2020 & 2021 will be held 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 & 2021 will consist of:

invited talks
peer-reviewed contributions

KEYNOTE 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

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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.

Upload submissions to:

<https://easychair.org/conferences/?conf=lata20202021>

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 Information and Computation (Elsevier, 2019 JCR impact factor: 0.872) 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://irdta.eu/lata2020-2021/registration/>

DEADLINES (all at 23:59 CET):

Paper submission: October 26, 2020 – EXTENDED -
Notification of paper acceptance or rejection: November 23, 2020
Final version of the paper for the LNCS proceedings: November 30, 2020
Early registration: November 30, 2020
Late registration: February 15, 2021
Submission to the journal special issue: June 5, 2021

QUESTIONS AND FURTHER INFORMATION:

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Università degli Studi di Milano-Bicocca

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