

Call for papers: TIME 2017

24th International Symposium on Temporal Representation and Reasoning Mons, Belgium, October 16–18, 2017

<http://informatique.umons.ac.be/time2017/>

Important dates:

Abstract submission: May 8th, 2017
Paper submission: May 12th, 2017
Notification: June 27th, 2017
Final version due: July 14th, 2017
Symposium: October 16–18, 2017

Invited Speakers:

Alessandro Artale, *U. Bozen-Bolzano, Italy*
Javier Esparza, *TU Munich, Germany*
Sheila McIlraith, *U. Toronto, Canada*

Program Committee:

Johann Eder, *Alpen Adria U. Klagenfurt, AT*
Fabio Grandi, *U. Bologna, IT*
Ernst Moritz Hahn, *ISCAS, CN*
Michael R. Hansen, *DTU, DK*
Fredrik Heintz, *Linköping U., Sweden*
Marcin Jurdziński, *U. Warwick, UK*
Roman Kontchakov, *Birkbeck, U. London, UK*
Jan Křetínský, *TU Munich, DE*
Bart Kuijpers, *Hasselt U., BE*
Martin Lange, *U. Kassel, DE*
Martin Leucker, *U. Lübeck, DE*
Cláudia Nalon, *U. Brasília, BR*
Andrea Orlandini, *ISTC-CNR, IT*
Doron Peled, *Bar Ilan U., Israel*
Roberto Posenato, *U. Verona, IT*
Jean-François Raskin, *ULB, BE*
Peter Z. Revesz, *U. Nebraska-Lincoln, USA*
Mark Reynolds, *U. Western Australia, AU*
Sven Schewe, *U. Liverpool, UK (Chair)*
Renate A. Schmidt, *U. Manchester, UK*
Thomas Schneider, *U. Bremen, DE (Chair)*
Paolo Terenziani, *U. Piemonte Orientale, IT*
David Toman, *U. Waterloo, CA*
Kristian Torp, *Aalborg U., DK*
Alejandro A. Vaisman, *ITBA, AR*
Kristen B. Venable, *Tulane U., USA*
Jef Wijsen, *U. Mons, BE (Chair)*
Stefan Wöfl, *U. Freiburg, DE*
Martin Zimmermann, *Saarland U., DE*

Contact:

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Aims and scope. TIME 2017 aims to bring together researchers interested in reasoning about temporal aspects of information in any area of Computer Science. The symposium, currently in its 24th edition, has a wide remit and intends to cater to both theoretical aspects and well-founded applications. One of the key aspects of the symposium is its interdisciplinarity, with attendees from distinct areas such as artificial intelligence, database management, logic and verification, and beyond. Submissions of high-quality papers describing research results are solicited. The symposium will encompass three tracks on temporal representation and reasoning in (1) Artificial Intelligence, (2) Databases and (3) Logic and Verification.

The Artificial Intelligence track includes, but is not limited to:

Temporal aspects of agent- and policy-based systems, spatial and temporal reasoning, reasoning about actions and change, planning and planning languages, ontologies of (space-)time, belief and uncertainty in temporal knowledge, temporal learning and discovery, time in problem solving (e.g., diagnosis, scheduling), time in human-machine interaction, temporal information extraction, time in natural language processing, spatio-temporal knowledge representation systems, spatio-temporal ontologies for the semantic web, constraint-based temporal reasoning, temporal preferences.

The Database track includes, but is not limited to:

Temporal data models and query languages, temporal query processing and indexing, temporal data mining, time series data management, stream data management, spatio-temporal data management, data currency and expiration, indeterminate and imprecise temporal data, temporal constraints, temporal aspects of business processes and ECA systems, real-time databases, time-dependent security policies, privacy in temporal and spatio-temporal data, temporal aspects of multimedia databases, temporal aspects of e-services and web applications, temporal aspects of distributed systems, temporal aspects and big data, temporal aspects in NoSQL databases, temporal data warehouses, temporal healthcare databases and warehouses, time series analysis and mining, semistructured temporal data, novel applications of temporal database management, novel visualizations and interfaces for temporal data, experiences with real applications.

The Logic and Verification track includes, but is not limited to:

Specification and verification of systems, verification of web applications, synthesis and execution, model-checking algorithms and implementations, verification of infinite-state systems, reasoning about transition systems, temporal architectures, temporal logics for distributed systems, temporal logics for games and open systems, temporal logics of knowledge, hybrid systems and real-time logics, cyber-physical systems, tools and practical systems, temporal issues in security.

Submission and publication. Submissions of high-quality papers describing research results are solicited. Submitted papers should contain original, previously unpublished content, should be written in English, and must not be simultaneously submitted for publication elsewhere. Submitted papers will be refereed for quality, correctness, originality, and relevance. Detailed submission guidelines can be found on the website of TIME 2017:

<http://informatique.umons.ac.be/time2017/>

Accepted papers will be presented at the symposium and included in the proceedings, which will be published by LIPIcs-Leibniz International Proceedings in Informatics, which is a series of high-quality peer-reviewed conference proceedings, published according to the principle of OpenAccess. At least one author of each accepted paper must register at the conference and present the paper.

Authors of selected papers will be invited to submit an extended version of their contribution to a special issue of the journal Theoretical Computer Science.