

Call for Papers  
**TIME 2005**  
**The 12th International Symposium on**  
**TEMPORAL REPRESENTATION AND REASONING**

<http://time2005.cse.buffalo.edu>

Burlington, Vermont, U.S.A., June 23-25, 2005

**General Chair:**

Pierre Wolper, Liège, *Belgium*

**Program Chairs:**

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David Toman, Waterloo, *Canada*

**Local Organization Chair:**

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Mark Reynolds, Murdoch, *Australia*

Mark Ryan, Birmingham, *UK*

Cyrus Shahabi, USC, *USA*

Vassilis Tsotras, Riverside, *USA*

Michael Zakharyashev, King's Coll., *UK*

Carlo Zaniolo, UCLA, *USA*

**Invited Speakers:**

Patrice Godefroid, Lucent Bell Labs, *USA*  
*Generalized Model Checking.*

Betty Salzberg, Northeastern Univ., *USA*  
*Temporal Indexing.*

**Important Dates:**

Submission Deadline: Jan. 22, 2005

Acceptance Notification: Mar. 10, 2005

Camera Ready Copy: Apr. 01, 2005

TIME 2005 Symposium: Jun. 23-25, 2005

**Further information:**

[time2005@cse.buffalo.edu](mailto:time2005@cse.buffalo.edu)

The purpose of this symposium is to bring together active researchers from distinct research areas involving the representation of and reasoning about temporal phenomena. As with previous meetings in this unique and well established series, one of the main goals of the TIME symposium will be to bridge the gap between theoretical and applied research in temporal representation and reasoning. Thus, we especially encourage submissions concerning temporal aspects within areas such as Artificial Intelligence, Temporal/Spatial Databases and Applications of Temporal Logic in Computer Science, in order to achieve a multi-disciplinary perspective on the topics and to benefit from cross-fertilization of ideas.

The special emphasis of TIME 2005 is on NEW DIRECTIONS IN TIME RESEARCH, for example querying data streams and moving objects, temporal data mining, and temporal aspects of agents and policies.

There are three tracks in the symposium with a single program committee. The conference is planned as a two-and-a-half-day event, and will be organised as a combination of technical paper presentations, an extended poster session, and two keynote talks.

Submitted papers should describe original, previously unpublished research, should be written in English, and should not be simultaneously submitted for publication elsewhere. Suggested topics include the following (the list is not exhaustive):

**Track 1:** Temporal Representation and Reasoning in AI

temporal aspects of agent- and policy-based systems, temporal constraint reasoning, reasoning about actions and change, temporal languages for planning, temporal languages and architectures, ontologies of time and space-time, expressive power versus tractability, belief and uncertainty in temporal knowledge, temporal learning and discovery, time and nonmonotonicity, time in problem solving, e.g., diagnosis, scheduling, time in human-machine interaction, spatio-temporal reasoning.

**Track 2:** Time Management in Databases

temporal data models, temporal query languages, indexing of temporal/spatio-temporal data, temporal database systems, spatio-temporal databases, moving objects databases, constraint databases, temporal data mining, time in multimedia databases, time in e-services and web applications, time in federated and heterogeneous systems, time in workflow and ECA systems, time-series databases, data streams, time-dependent security policies.

**Track 3:** Temporal Logic in Computer Science

specification and verification of systems, synthesis and execution, model checking algorithms, verification of infinite-state systems, reasoning about transition systems, temporal architectures, temporal logics for distributed systems, temporal logics of knowledge, hybrid systems and real-time logics, tools and practical systems, temporal issues in security.

Submissions must not exceed the length of 11 pages; font size must be 11pt or larger. The papers should be submitted as PDF files. The use of the LaTeX article style is strongly suggested. Overlength submissions will be rejected without review. Please indicate the track and topic(s) on the first page. Accepted papers will be invited for full presentation or for a poster presentation. One author of each accepted paper has to register for the symposium and present the paper. Papers should be electronically submitted via the form available at the TIME 2005 web site (<http://time2005.cse.buffalo.edu>). All submissions must be received by Saturday, January 29, 2005.

As usual within the TIME series, proceedings will be published by IEEE Computer Society Press and will be subject to IEEE Copyright. It is also our intention to organize a special issue of a leading journal, containing extended versions of selected papers from the symposium.