

Important dates

Abstract Submission:	April 16
Paper Submission:	April 20
Paper Notification:	May 20
Camera Ready Copy Due:	June 24
TIME 2012 Symposium:	September 12-14

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Ben Moszkowski, De Montfort University, UK

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Mark Reynolds, University of Western Australia, Australia
Paolo Terenziani, University of Turin, Italy

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Organization Committee

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Presentation of the symposium

The TIME symposium series is a well-established annual event that brings together researchers from all areas of computer science that involve temporal representation and reasoning. This includes, but is not limited to, artificial intelligence, temporal databases, and the verification of software and hardware systems. In addition to fostering interdisciplinarity, the TIME symposia emphasize bridging the gap between theoretical and applied research.

ALAN TURING YEAR



TIME 2012 is an official event of The Alan Turing Year

<http://www.turingcentenary.eu/>

A Centenary Celebration of the Life and Work of Alan Turing

Tracks and Topics

The conference will span three days, and will be organized as a combination of technical paper presentations, keynote lectures, and tutorials. In addition, TIME 2012 will feature a special track on Temporal Representation and Reasoning in Medicine.

The main topics of the conference are:

1. Temporal Representation and Reasoning in AI
2. Temporal Database Management
3. Temporal Logic and Verification in Computer Science
4. Special Track on Temporal Representation and Reasoning in Medicine

Temporal Representation and Reasoning in AI 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 time and 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.

Temporal Database Management 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, including moving objects; Data currency and expiration; Indeterminate and imprecise temporal data; Temporal constraints; Temporal aspects of workflow 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; Novel applications of temporal database management; Experiences with real applications.

Temporal Logic and Verification in Computer Science includes, but is not limited to: Specification and verification of systems; Verification of web applications; 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; Interval temporal logics and duration calculi; Temporal logics: expressiveness, decidability, and complexity; Tools and practical systems; Temporal issues in security.

Special track on Temporal Representation and Reasoning in Medicine organized by Carlo Combi. Submissions for the special track will be primarily managed by him, though the final decision on acceptance will be taken by the whole PC.

High quality contributions for the special track are welcome in, but are not limited to, any of the following sub-areas of research: Temporal reasoning and time-oriented diagnosis or therapy-planning in medicine; Temporal constraint representation and management in medical databases; Querying and maintaining time-oriented medical databases; Modeling and querying time-oriented medical data; Acquisition, maintenance, sharing, and reuse of temporal medical knowledge; Handling multiple and heterogeneous time-oriented clinical databases; Design and implementation of time-oriented medical information systems; Summarization of time-oriented medical data; Temporal data mining in medicine; Visualization of temporal clinical data and knowledge; Temporal knowledge and medical ontologies; Clinical guidelines, workflows and temporal information; Managing multimedia temporal data.

PAPER SUBMISSION

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 by at least three reviewers for quality, correctness, originality, and relevance. Accepted papers will be presented at the symposium and included in the proceedings which, as in previous years, are to be published by the Conference Publishing Services (CPS). Acceptance of a paper is contingent on one author presenting the paper at the symposium.

Submissions should be in PDF format (with the necessary fonts embedded). They must be formatted according to the CPS guide-lines described at

<ftp://pubftp.computer.org/press/outgoing/proceedings/8.5x11-Formattingfiles/> and must not exceed 8 pages; over-length submissions may be rejected without review.

Papers are submitted electronically via EasyChair:

<http://www.easychair.org/conferences/?conf=time12>

Contact

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