

CALL FOR PAPERS: FORMATS 2010

Objective and Scope: Timing aspects of systems from a variety of computer science domains have been treated independently by different communities. Researchers interested in semantics, verification and performance analysis study models such as timed automata and timed Petri nets, the digital design community focusses on propagation and switching delays while designers of embedded controllers have to take account of the time taken by controllers to compute their responses after sampling the environment. Timing-related questions in these separate disciplines do have their particularities. However, there is a growing awareness that there are basic problems that are common to all of them. In particular, all these sub-disciplines treat systems whose behavior depends upon combinations of logical and temporal constraints; namely, constraints on the temporal distances between occurrences of events. The aim of FORMATS is to promote the study of fundamental and practical aspects of timed systems, and to bring together researchers from different disciplines that share interests in modeling and analysis of timed systems. Typical topics include (but are not limited to):

- Foundations and Semantics: Theoretical foundations of timed systems and languages; comparison between different models (timed automata, timed Petri nets, hybrid automata, timed process algebra, max-plus algebra, probabilistic models).
- Methods and Tools: Techniques, algorithms, data structures, and software tools for analyzing timed systems and resolving temporal constraints (scheduling, worst-case execution time analysis, optimization, model checking, testing, constraint solving, etc.).
- Applications: Adaptation and specialization of timing technology in application domains in which timing plays an important role (real-time software, hardware circuits, and problems of scheduling in manufacturing and telecommunication).

Important Dates:

- Abstract submission: April 11, 2010 (STRICT)
- Paper submission: April 18, 2010 (STRICT)
- Author notification: May 23, 2010
- Camera ready version: June 13, 2010

Submission and Publication: The proceedings of FORMATS 10 will be published by Springer in the Lecture Notes in Computer Science series. Papers must contain original contributions, be clearly written, and include appropriate references to and comparison with related work. Simultaneous submission to other conferences with published proceedings is not allowed. Submissions should not exceed 15 pages, and should be formatted according to Springer LNCS guidelines. If necessary, the submission may be supplemented with a clearly marked appendix, which will be reviewed at the discretion of the program committee. Submissions will be handled by the EasyChair system.