Summer school MOVEP 2002

MOdelling and VErification of parallel Processes

Nantes, France, June 17-21, 2002

(First Call for Participation)
http://www.cs.bham.ac.uk/~mdr/movep/

About the school location:

The summer school will take place in Ecole Centrale de Nantes. In addition to the tutorials, talks and student sessions, there will be time for discussions and meetings during all the week. Accomodation is possible for students on site for a low price. Otherwise a list of hotels will be given.

Important Dates:

April 15: Opening of the registration on web site.
May 15: Deadline for sending abstracts of student works.
June 17-21: MOVEP 2002

Additional Information: see the conference home page or send a message to: movep02@lsv.ens-cachan.fr

Aims and scope: MOVEP is a summer school about modelling and verifying parallel processes. Already four occurrences of the School have taken place in Nantes (France) in June 1994, June 1996, July 1998 and June 2000. General topics relate to specification and verification of computer systems intended to control real-time applications, reactive or critical systems, and involving processes which run concurrently on centralized or distributed architecture.

The objective of MOVEP is thus to draw up a theoretical framework in this area of computer science for automatic control. Presented formalisms are intended to express or handle the behavioural and temporal features of systems: models, specification languages, verification techniques, designing approaches, etc. Tools and case studies from the area of dynamic discrete event systems, communication protocols, real-time and hybrid systems, will illustrate the various methods of modelling and verification.

Preliminary programme

Tutorials:

1. "Model checking and program analysis", Markus Mueller-Olm (University of Dortmund)
2. "Model checking infinite state systems", Ahmed Bouajjani (LIAFA)
3. "Temporal logic and verification", Philippe Schnoebelen (LSV)
4. "Automatic testing of real-time systems", Brian Nielsen (BRICS)
5. "Theorem proving for controlling air traffic", Victor A. Carreno (NASA)
6. "Protocols and security", Gavin Lowe (Oxford University)
7. "Diagnosis of asynchronous and/or distributed discrete event systems", Albert Benveniste (IRISA)
8. "Modeling real-time systems", Joseph Sifakis (VERIMAG)
9. "Verification of hybrid systems", Howard Wong-Toi (Cadence)
10. "Compositional verification", Luca de Alfaro (University of California)

Talks:

1. "Synthesis of discrete controllers", Igor Walukiewicz (LaBRI)
2. "Real-time controllers", Jean-François Raskin (Université Libre de Bruxelles)
3. "Probabilistic model checking", Marta Kwiatkowska (University of Birmingham)
4. "Verification of hardware", Rolf Drechsler (University of Bremen)
5. "Bisimulation-based proof methods applied to analysis of cryptographic protocols", John Mullins (Ecole Polytechnique, Montréal)

Ph. D. Students sessions: The purpose of the MOVEP summer school is to bring together researchers, students and people from industry working in the area of verification of concurrent systems. In addition to the tutorials and talks, there will be special sessions devoted to Ph. D. Students, where they will be able to present their on-going research. Moreover abstracts of these presentations will be published with the proceedings of the school. Such abstracts should not exceed 6 pages and have to be sent before May 15th to movep02@lsv.ens-cachan.fr