

The 27th Workshop of the UK PLANNING AND SCHEDULING Special Interest Group

PlanSIG 2008

December 11-12, 2008

Edinburgh

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Topics

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Topics of interest include (but are not limited to):

Algorithms: novel planning and scheduling algorithms.

Applications: empirical studies of existing planning/scheduling systems; domain-specific techniques; heuristic techniques; user interfaces for planning and scheduling; evaluation metrics for plans/schedules; verification and validation of plans/schedules.

Applications example of real world problems are particularly welcomed.

Architectures: real-time support for planning/scheduling/control; mixed-initiative planning and user interfaces; integration of planning and scheduling; integration of planning/scheduling and Fault Detection Isolation and Recovery (FDIR); planning and scheduling in autonomous systems.

Environmental and Task Models: analyses of the dynamics of environments, tasks, and domains with regard to different models of planning and execution; verification and validation of domain models.

Formal Models: reasoning about knowledge, action, and time; representations and ontologies for planning and scheduling; search methods and analysis of algorithms; formal characterisation of existing planners and schedulers.

Intelligent Agency: resource-bounded reasoning; distributed problem solving; integrating reaction and deliberation.

Learning: learning in the context of planning and execution; learning new plans and operators; learning in the context of scheduling and schedule maintenance.

Memory Based Approaches: case-based planning/scheduling; plan and operator learning and reuse; incremental planning.

Reactive Systems: environmentally driven devices/behaviours; reactive control; behaviours in the context of minimal representations; schedule maintenance.

Robotics: Motion and path planning; planning and control; planning and perception, integration of planning and perceptual systems.

Constraint-based Planning/Scheduling and Control Techniques: constraint/preference propagation techniques, variable/value ordering heuristics, intelligent backtracking/RMS-based techniques, iterative repair heuristics, etc.

Coordination Issues in Decentralised/Distributed

Important Dates:

Submissions: October 13th 2008
Notification: November 14th 2008
Early registration: November 07th-21st 2008
Final versions: November 21st
Workshop: December 11-12, 2008

Organization:

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planning/scheduling: coordination issues in both homogeneous and heterogeneous systems, system architecture issues, integration of strategic and tactical decision making; collaborative planning/scheduling.

Iterative Improvement Techniques for Combinatorial Optimisation: genetic algorithms, simulated annealing, tabu search, neural nets, etc applied to scheduling and/or planning.

Artificial Intelligence and Operations Research: comparative studies and innovative applications combining AI and OR techniques applied to scheduling and/or planning.

Planning/scheduling under uncertainty: coping with uncertain, ill-specified or changing domains, environments and problems; application of uncertainty reasoning techniques to planning/scheduling, including MDPs, POMDPs, Belief Networks, stochastic programming, and stochastic satisfiability.

Submissions

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Full papers: (8 pages). These should report work in progress or completed work. Authors of full papers that are accepted by the Programme Committee will be invited to give a talk on the paper.

Short papers: (2 pages) These should report views or ambitions, or describe problems. The author(s) will be able to discuss the paper informally with others at the workshop and will be invited to give a short presentation on their work.

All papers should be prepared in the *AAAI style*. Please prepare your paper using the template in [DOC](#) format or [LaTeX style sheet](#), just remove the AAAI copyright. The language of all papers and presentations should be English.

Papers can be submitted via e-mail (preferred) or made available on the Web. In either case, documents should be in gzipped PDF format and be named "author.pdf.gz", using the name of the first author. An e-mail message containing either the file or its URL (e.g. <http://.../author.pdf.gz>) should reach the Workshop Chair **by 13th October 2008**. The pages should **NOT** be numbered.

All submissions will be reviewed by (at least) two referees, and successful submissions will appear in the Workshop Proceedings. Accepted papers will also be made available via the SIG web-site.