Special Track on

Artificial Intelligence Planning and Scheduling

Planning has belonged to fundamental areas of AI since its beginning and sessions on planning are an integral part of major AI conferences. By generating activities necessary to achieve some goal, planning is also closely related to scheduling that deals with allocation of activities to scarce resources. Although the planning and scheduling communities are somehow separated, both areas have interacted more and more in recent years, especially when dealing with real-life problems. This FLAIRS special track attempts to make the conference attractive for the planning community, a traditional part of the AI family, and also the scheduling community — especially for those using AI-motivated solving techniques such as constraint satisfaction.

FLAIRS 2008 hosted the first special track on AI planning and scheduling. The FLAIRS 2009 conference special track on AI Planning and Scheduling attracted papers from all areas of AI planning and scheduling. Topics of the special track included all aspects of planning and scheduling from theoretical studies to practical applications. Papers bridging the areas of planning and scheduling and application papers were especially welcome. Pure scheduling (timetabling) papers that use AI techniques such as constraint satisfaction or integrate with planning were also eligible. The topics covered applications and case studies from planning and scheduling; methodologies and tools for specification, design, implementation, and validation of planning and scheduling systems; constraint-based planning and scheduling; search for planning and scheduling; distributed and multiagent planning and scheduling; knowledge engineering techniques for planning and scheduling; planning with resources and time constraints; hierarchical task network planning; dynamic scheduling; mixed-initiative planning and scheduling; plan and schedule execution, monitoring and repair; planning and scheduling under uncertainty; and anytime and real-time planning and scheduling.