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[ISAIM] [ICAPS] Workshop on Model Checking and Automated Planning - CALL FOR PAPERS

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CALL FOR PAPERS

2nd ICAPS Workshop on Model Checking and Automated Planning (MOCHAP-15)

<http://icaps15.icaps-conference.org/>

Jerusalem, Israel, June 7/8, 2015

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There has been a lot of work on the exchanges between the two research areas of model checking and automated planning. From a high level perspective, model checking and planning problems are related in the sense that plans (found by a planning system) correspond to error traces (found by a model checker). For example, finding violations of properties that can be checked on a per-state basis (e.g., mutex properties) in model checking can be achieved by finding goal states in a correspondent planning problem. Thus, if a plan is found by a planning system, it corresponds to an error trace that a model checker could return. The link can be exploited also in the other way around, using a model checker to search the state space of a planning problem, and stopping the search when a goal state is found. Furthermore, there is a strong connection between hybrid-system falsification and motion planning as state-of-the-art motion planners are used as the starting point for searching the continuous state spaces of hybrid systems.

The purpose of the workshop is to continue to promote a cross-fertilisation between research on planning and verification, incrementing the synergy between the two areas. This workshop is an ideal venue for discussing what can be shared in terms of techniques, tools, modelling languages and benchmark problems.