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ICKEPS 2009

Proceedings of the Third International Competition on Knowledge Engineering for Planning and Scheduling

Edited by

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Preface

The International Competition on Knowledge Engineering for Planning and Scheduling (ICKEPS) has been running since 2005 as a bi-annual event promoting the development and importance of the use of knowledge engineering methods and techniques within Planning and Scheduling (P&S). While past events focused in general on knowledge engineering, this year the focus of ICKEPS was on a specific aspect: tools, translators and techniques that when input with a model described in an application-area specific language, output solver-ready domain models.

Many solvers have been developed within the P&S community which accept domain models encoded in a domain-independent language (such as those in the PDDL family). It is vital that these solvers are visible and accessible to potential users outside of the P&S community. Translators are one way to spread the P&S culture and technology and to broaden their catchments area. By allowing the use of languages designed by and for application domain experts, translators bring the P&S technology „into the field“, broadening the user community and giving the chance of demonstrating the applicability to real problems.

The participants of this third ICKEPS edition contributed with tools and translators from a wide range of application areas such as:

- Web services and Semantic web,
- Workflows and Business Process Modeling,
- Databases and Data Mining,
- UML,
- E-learning

A major goal of AI competitions has always been to accelerate development in some specified area. We hope to contribute with ICKEPS in pushing the research on the processes that deal with the acquisition, validation and maintenance of planning domain models, fostering also the connection with KE research in different areas. Investigating how modeling languages from different areas can be translated into each other furthers research into the principles of KE, and provides a valuable, reciprocal contribution.

– *Roman Barták, Simone Fratini, Lee McCluskey*
Competition co-Chairs

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