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# ICAPS 2009

## Proceedings of the Workshop on Planning and Learning

*Edited by*

*Amanda Coles, Andrew Coles, Sergio Jimenez Celorrio,  
Susana Fernandez Arregui and Tomas de la Rosa*

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# Preface

Progress in planning research faces the perennial battle of how to provide effective search guidance. One way in which to achieve this is by the use of applying learning techniques to planning. The aim is to eliminate the human bottleneck otherwise incurred, through automating the process of determining effective search guidance. In doing so, the potential for planning is extended, as larger problems are brought within its grasp.

In the past few years, learning in planning has re-emerged as a vibrant research area, and a 'Learning Track' made its International Planning Competition (IPC) debut in 2008. This workshop provides a forum for discussing issues surrounding the use of learning techniques in planning, continuing the lineage of the events of ICAPS 2007 and 2008.

This booklet contains the proceedings for the workshop, a collection of papers presenting many different approaches and ideas to how learning can be applied to planning. Twelve papers were submitted to the workshop, each reviewed by two anonymous referees. A total of eight full papers and one short paper were subsequently accepted. The workshop programme consists of a oral presentation of each of these, along with a discussion panel, and an invited talk by Leslie Pack Kaelbling. We hope the event serves to support research in this idea, and provide opportunity for discussion, both offline, and in the discussion panel that concludes the workshop.

– *Amanda Coles, Andrew Coles, Sergio Jimenez Celorrio,  
Susana Fernandez Arregui and Tomas de la Rosa*  
*Workshop co-Chairs*

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