Preface

A *symmetry* is a transformation that preserves solutions that are considered equivalent. For instance, rotating a chess board 180 degrees gives a board that is indistinguishable from the original board. In the presence of symmetry, a constraint solver may waste a lot of time considering symmetric but equivalent assignments or partial assignments. Hence, dealing with symmetry is often crucial for solving such combinatorial problems efficiently.

This is the 10th workshop of the very successful *SymCon* series of workshops on symmetry in constraint satisfaction problems, founded by us in 2001 (the series homepage is [http://www.it.uu.se/research/group/astra/SymCon/](http://www.it.uu.se/research/group/astra/SymCon/)).

All submitted papers were peer-reviewed and those that make a worthwhile contribution were accepted for presentation at the workshop. We hope that this snapshot of current research will act as a catalyst for further research. These proceedings are informal and are also on-line (at [http://www.it.uu.se/research/group/astra/SymCon10/](http://www.it.uu.se/research/group/astra/SymCon10/)).

We thank Pedro Meseguer, the workshop chair of CP’10, for a smooth organisation of local matters together with the CP’10 local chairs. Many thanks also to the SymCon’10 programme committee (listed below), for precious help with the review process. Finally, we express our gratitude to Pascal Van Hentenryck, for agreeing to give the invited talk.

Uppsala, 20 August 2010

Pierre Flener and Justin Pearson

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Table of Contents

A Partial Taxonomy of Substitutability and Interchangeability ......................... 1
  *Shant Karakashian, Robert Woodward, Steven Prestwich, Berthe Choueiry, and Eugene Freuder*

Internal Symmetry .................................................. 19
  *Marijn Heule and Toby Walsh*

Symmetries and Lazy Clause Generation .................................................. 34
  *Geoffrey Chu, Maria Garcia de la Banda, Chris Mears, and Peter Stuckey*

Arities of Symmetry Breaking Constraints .................................................. 49
  *Tim Januschowski*