

Preface

Models are an abstraction of a problem under scrutiny and have been crucial components in diverse engineering disciplines and in particular, in software engineering. Search-based software engineering (SBSE) is a software development practice which focuses on couching software engineering problems as optimisation problems and utilising metaheuristic techniques to discover near optimal solutions to those problems. Like many other domains of software engineering, the modelling community is currently concerned with the use of examples, such as traceability information and input/output model pairs of transformations, to search for solutions that fall within a specified acceptance margin to solve specific problems. We believe that SBSE approaches and example-based approaches to software engineering offer innovate ways to better discover, manage, and evaluate models in software engineering.

The International Workshop on Combining Modelling with Search- and Example-Based Approaches (CMSEBA) is one of the most accurate venues to offer researchers a dedicated forum to discover opportunities for different ways SBSE and example-based techniques can be combined with modelling, and aims to stimulate research in this area. This first edition has been held as a half-day event of the 17th International Conference on Model Driven Engineering Languages and Systems (MODELS 2014) on September 28th, 2014 in Valencia, Spain.

The workshop was opened by a keynote speech given by Benoit Baudry (University of Rennes, France) on searching models for proactive software diversification. Five contributions were accepted for presentation after a rigorous review process, addressing various topics such as querying models by-example, design-space exploration patterns in MDE, multi-objective model optimization, and storing/retrieving SBSE experimental information in an open online repository.

We would like to thank the MODELS 2014 organization for giving us the opportunity to organize this workshop, especially to the workshops chairs, Gabriele Taenzer (Philipps-Universität Marburg, Germany) and Alfonso Pierantonio (University of L'Aquila, Italy), who were always very helpful and supportive. Many thanks to all those that submitted papers, and particularly to the presenters of the accepted papers. We also warmly thank the many participants who contributed to the open discussions with their remarks and experience. Last but not least, our thanks go to the reviewers and the members of the Program Committee, for their timely and accurate reviews and for their help in choosing and suggestions for improving the selected papers.

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