Preface

Grzegorz J. Nalepa and Joachim Baumeister

AGH University of Science and Technology
Kraków, Poland
gjn@agh.edu.pl
—
Intelligent Systems (Informatik 6)
University of Würzburg
Würzburg, Germany
joba@uni-wuerzburg.de

Intelligent systems have been successfully developed in various domains based on techniques and tools from the fields of knowledge engineering and software engineering. Thus, declarative software engineering techniques have been established in many areas, such as knowledge systems, logic programming, constraint programming, and lately in the context of the Semantic Web and business rules.

The sixth workshop on Knowledge Engineering and Software Engineering (KESE6) was held at the KI-2010 in Karlsruhe, Germany, and brought together researchers and practitioners from both fields of software engineering and artificial intelligence. The intention was to give ample space for exchanging latest research results as well as knowledge about practical experience. Topics of interest includes but were not limited to:

- Knowledge and software engineering for the Semantic Web
- Ontologies in practical knowledge and software engineering
- Business rules design and management
- Knowledge representation, reasoning and management
- Practical knowledge representation and discovery techniques in software engineering
- Agent-oriented software engineering
- Database and knowledge base management in AI systems
- Evaluation and verification of intelligent systems
- Practical tools for intelligent systems
- Process models in AI applications
- Declarative, logic-based approaches
- Constraint programming approaches

This year, we received contributions focussing on different aspects of knowledge engineering: Kluza et al. present a declarative method of inference specification in modularized knowledge bases. Application of knowledge engineering in psychological processes is elaborated by Newo et al. The contribution of Freiberg et al. discusses practical issues of building novel interfaces for knowledge-based systems. Sagrado et al. review optimization techniques and focus on their application for the requirements selection problem in software releases.

This year we also encouraged to submit tool presentations, i.e., system descriptions that clearly show the interaction between knowledge engineering and software engineering research and practice. At the workshop, one presentation about current tools was given: Cañadas et al. introduce a practical application for rule-based applications integrated ontologies, using the Jess engine and the MVC approach.

The organizers would like to thank all who contributed to the success of the workshop. We thank all authors for submitting papers to the workshop, and we thank the members of the program committee as well as the external reviewers for reviewing and collaboratively discussing the submissions. For the submission and reviewing process we used the EasyChair system, for which the organizers would like to thank Andrei Voronkov, the developer of the system. Last but not least, we would like to thank the organizers of the KI 2010 conference for hosting the KESE6 workshop.

<div align="right">

Grzegorz J. Nalepa
Joachim Baumeister

</div>

Program Committee

– K.-D. Althoff, University Hildesheim, Germany
– J. Baumeister, University Würzburg, Germany
– J. Cañadas, University of Almeria, Spain
– U. Geske, FhG FIRST, Berlin, Germany
– A. Giurca, BTU Cottbus, Germany
– J. Jung, Yeungnam University, Korea
– R. Knauf, TU Ilmenau, Germany
– G. J. Nalepa, AGH UST, Kraków, Poland
– D. Seipel, University Würzburg, Germany
– I. Stamelos, Aristotle University of Thessaloniki,Greece
– G. Weiss, University of Maastricht, The Netherlands

Workshop Organization

The 6th Workshop on Knowledge Engineering and Software Engineering
(KESE6)
was held as a one-day event at the
33rd German Conference on Artificial Intelligence (KI2010)
on September 21, 2010, Karlsruhe, Germany.

Workshop Chairs and Organizers

Grzegorz J. Nalepa, AGH UST, Kraków, Poland
Joachim Baumeister, University Würzburg, Germany

Programme Committee

Klaus-Dieter Althoff, University Hildesheim, Germany
Joaquin Cañadas, University of Almería, Spain
Uli Geske, FhG FIRST, Berlin, Germany
Adrian Giurca, BTU Cottbus, Germany
Jason Jung, Yeungnam University, Korea
Rainer Knauf, TU Ilmenau, Germany
Dietmar Seipel, University Würzburg, Germany
Ioannis Stamelos, Aristotle University of Thessaloniki, Greece
Gerhard Weiss, University of Maastricht, The Netherlands