MULTI 2014

Satellite event of MODELS 2014

1st Int. Workshop on Multi-Level Modelling

28th, 29th or 30th September 2014, Valencia, Spain

In recent years there has been growing interest in the use of multi-level modelling approaches to better represent the multiple classification levels that are frequently found in the real world and are needed to effectively engineer languages. Multi-Level modelling approaches have not only been successfully used in numerous industrial projects and standards definition initiatives they are now supported by an array of dedicated tools. However there is still no clear consensus on what multi-level modelling actually is and what kinds of constructs and concepts provide the best support for it. For example, there are diverging views on whether it is sound to combine instance facets and type facets into so-called clabjects, whether strict metamodelling is too restrictive, and what principles should be used in establishing meta-level boundaries, etc. The goal of this workshop is to bring together researchers and practitioners interested in multi-level modelling to debate foundations, discuss challenges in applying multi-level modelling techniques and share experiences regarding multi-level modelling tools.

Goals

The goal of this workshop is to bring together researchers and practitioners with an interest in multi-level modelling to foster a fruitful cross-pollination of ideas and lay the foundation for a unified discipline. In particular, the workshop will aim to identify a set of criteria for judging the strengths and weaknesses of different multi-level modelling approaches and for defining possible benchmark case studies. We encourage submissions on new concepts, implementation approaches and formalisms as well as submissions on controversial positions, requirements for evaluation criteria or case-study scenarios. Contributions in the area of tool building, multi-level modelling applications, and educational material are also welcome.

Topics

Suggested topics include, but are not limited to:

- the exact nature of elements in a multi-level hierarchy and how best to represent them
- the importance and role of potency and its variants such as durability
- the role of power types and the best way to represent them
- the structure and labelling of a multi-level modelling framework
- methods and technique for discovering multi-level elements, specialisations and classification relationships
- formal approaches to multi-level modelling
- experiences and challenges in providing tools for multi-level modelling
- experiences and challenges in applying multi-level modelling techniques to large and/or real world problems
- model management languages (transformation, constraint etc.) in a multi-level setting
- criteria for comparing multi-level modelling approaches
- comparisons of multi-level and two-level solutions for modelling problems

Contributions

Two kinds of papers are solicited: regular papers (max 10 pages), and position papers (max 6 pages), adhering to Springer LNCS style. Accepted papers will be published as CEUR-WS workshop proceedings, and indexed in DBLP.

The best papers will be considered for publication, in an extended form, in a theme issue of the Journal of Software & Systems Modeling (SoSyM).

Organizers

Colin Atkinson (Germany)
Georg Grossmann (Australia)
Thomas Kühne (New Zealand)
Juan de Lara (Spain)

Programme Committee

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Hans Vangheluwe (Belgium)
Daniel Varro (Hungary)
Manuel Wimmer (Austria)
Steffen Zschaler (UK)

Important Dates

Paper submission: 11 July
Author notification: 22 August
Proceedings online: 19 September

Contact

multi2014@informatik.uni-mannheim.de

Homepage

http://miso.es/multi/2014/