

Conceptual Modelling of Services

Preface to the 6th International Workshop on Conceptual Modelling of Services

The 6th International Workshop on Conceptual Modelling of Services (CMS 2015) was co-located with the 34th International Conference on Conceptual Modeling (ER 2015) and organized in Stockholm in October 2015.

The CMS workshop aims to bring together researchers in the areas of services computing, services science, business process modelling, and conceptual modelling. The emphasis of this workshop is on the intersection of the rather new, fast growing services computing and services science paradigms with the well established conceptual modelling area. This workshop was organized 6th time and as before we particularly aimed at a close linkage between the conceptual modelling community and the services computing / services science communities. The 1st and 3rd CMS Workshops were organized in conjunction with ER 2010 and 2012. The 2nd CMS Workshop was co-located with the 1st International Conference on Data and Knowledge Engineering (ICDKE 2011). The 4th and 5th CMS Workshops were co-located with DEXA 2013 and 2014.

This workshop proceeding contains two papers and the summaries of two invited talks on the subject of conceptual modelling of services, which were presented at CMS 2015. In CMS 2015 our invited speakers were Paul Johannesson, who is Professor of the department of Computer and Systems Sciences at Stockholm University and Bernhard Thalheim, who is Professor of Information Systems Engineering at the University of Kiel. Both of them are known among others for conceptual modeling and theoretical foundational contributions. Each scientific paper submitted to CMS 2015 was subject to peer review by at least three members of an international program committee.

In *A Conceptual Model for Services* Bernhard Thalheim and Ajantha Dahanayake focus on the support provided by models to understand how a system works, how it can be used or should not be used, and what would be the benefit of conceptual models in general. In *A Use and Exchange Perspective for Explicating the Notion of Service* Paul Johannesson discusses three mechanisms for clarifying the notion of service based on a use and exchange perspective: rights distribution, abstraction and co-creation. In *Integration and Exchangeability of External Security-Critical Web Services in a Model-Driven Approach* Marian Borek, Kurt Stenzel, Kuzman Katkalov and Wolfgang Reif present the integration and exchangeability of external web services in a model-driven approach called SecureMDD for security-critical applications as well as discuss the verification of the entire application including the communication with external services. Finally the article *Providing Ontology-Based Privacy-Aware Data Access through Web Services* by Sven Hartmann, Hui Ma, Panrawee Vechsamutvaree

proposes an ontology-based data access model so that different level of data access can be provided to Web service users with different roles.

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