Ontology modeling with domain experts

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Abstract. In this talk we will discuss lessons learned from several years' experience in modeling ontologies with domain experts. In particular, we will emphasize on quality aspects which make it easier to reuse ontologies and linked data published based on ontologies. We argue that modularization based on ontology design patterns improves quality control and at the same time simplifies information exchange between domain experts and ontology engineers.

Speaker Bio. Pascal Hitzler is a (full) Professor and Director of Data Science at the Department of Computer Science and Engineering at Wright State University in Dayton, Ohio, U.S.A. From 2004 to 2009, he was Akademischer Rat at the Institute for Applied Informatics and Formal Description Methods (AIFB) at the University of Karlsruhe in Germany, and from 2001 to 2004 he was postdoctoral researcher at the Artificial Intelligence institute at TU Dresden in Germany. In 2001 he obtained a PhD in Mathematics from the National University of Ireland, University College Cork, and in 1998 a Diplom (Master equivalent) in Mathematics from the University of Tbingen in Germany. His research record lists over 300 publications in such diverse areas as semantic web, neural-symbolic integration, knowledge representation and reasoning, machine learning, denotational semantics, and set-theoretic topology. He is Editor-in-chief of the Semantic Web journal by IOS Press, and of the IOS Press book series Studies on the Semantic Web. He is co-author of the W3C Recommendation OWL 2 Primer, and of the book Foundations of Semantic Web Technologies by CRC Press, 2010 which was named as one out of seven Outstanding Academic Titles 2010 in Information and Computer Science by the American Library Association's Choice Magazine, and has translations into German and Chinese. He is on the editorial board of several journals and book series and on the steering committee of the RR conference series and the NeSy workshop series, and he frequently acts as conference chair in various functions, including e.g. General Chair (RR2012), Program Chair (AIMSA2014, ODBASE2011, RR2010), Track Chair (AAAI-15, ESWC2015, ESWC2013, ESWC2011, ISWC2010), Workshop Chair (K-Cap2013), Sponsor Chair (ISWC2013, RR2009, ESWC2009). For more information, see `http://www.pascal-hitzler.de`