# INVITED TALK

# Semantic Search – Adaptation of Knowledge Models

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**Abstract:** Search applications have for many become part of their daily tools, empowering the users with easy access to vast amount of information. Despite the commonality with these tools finding quality information can still be both tedious and frustrating often involving multiples queries and analysis of extensive amounts of information. Semantic search is believed to solve many of the shortcomings found with current search applications, but still not commonly used. Semantic search has been a research area for a while, yet there are many issues to solve and improvements to make.

In this talk, the author will present a variety of semantic search systems that focus on adaptation of knowledge models. The author will present different approaches for how knowledge models can be enriched or created for a domain and how they can be used in search to increase the user experience.

**Biography:** Stein L. Tomassen finalized his PhD in 2011 at Norwegian University of Science and Technology (NTNU). His work was titled 'Conceptual Ontology Enrichment for Web Information Retrieval'. Prior to his PhD he worked three years for SINTEF ICT where his main focus was on mobile applications in relation to user context in particular.

In 2012, he started working for Microsoft Development Center Norway as a Program Manager. His research interests include semantic technologies, text mining, user context, ontology and information quality evaluation, in general; and improvement of information retrieval quality using ontologies, in particular. His publications include more than 20 articles in international refereed books, journals, conferences and workshops.

# SESSION 1

# Social Networks and Mobility