

Keynote 2

Component Models and Models of Components

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We have worked in the intersection of component-based and model-based development, mostly targeting the domain of embedded systems, in a number of research projects ranging from development of new component models to model-level timing analysis and safety certification. This talk will present a few selected challenges as well as our general view of how a combination of models and components can be exploited in this domain.

Jan Carlson is an associate professor at Mälardalen University, Sweden. He received his M.Sc. degree in Computer Science from Linköping University in 2000, and his doctoral degree from Mälardalen University in 2007. His current research focuses on component- and model based development of embedded systems, addressing areas such as architectural decision support, allocation optimization, model-level timing analysis, and code generation. Other research interests include event pattern detection, and analysis of shared stack usage.