

Keynote: John Krogstie

“How can Enterprise Information Systems utilize the Future Internet?”

The "Internet of Things" (IoT) has come to describe a new paradigm that enables the Internet to reach out into the real world of physical objects. Technologies like RFID, short-range wireless communication, real-time localization and sensor networks are becoming increasingly common and turning IoT into reality. It is expected to grow rapidly into a huge new market domain that may lead to disruptive changes in areas such as logistics, energy management and healthcare. Mobile and collaborative applications and services utilizing information processing and process support enabled by sensor data from a vast numbers of connected and cheap devices will change many markets when being made more easily available. New event-driven architectures (EDA) providing varied information to support collaborative decision-making enable more decisions to be made closer to the problem owner. The expected impacts of the combination of IoT and EDA on business and society are formidable. It also opens the possibility to take into account additional input from users to ensure shorter turnaround from ideas to new, personalized information systems support.

Future Enterprise Information Systems will need to take this situation into account, addressing both technological and conceptual challenges. This talk will focus on the latter, discussing in particular the potential role of model-based techniques and how to assess and improve the quality of models and modeling approaches in this setting.

About the author:

John Krogstie holds a PhD (1995) and a MSc (1991) in information systems from the Norwegian University of Science and Technology (NTNU), where he is currently a full professor in information systems. He is also the Vice Dean of the faculty, responsible for the thematic area ICT at NTNU coordinating multidisciplinary research involving ICT at the university. John Krogstie is the Norwegian representative for IFIP TC8 and chair of IFIP WG 8.1 on information system design and evaluations. His research interest are information systems modeling, quality of models and modeling languages, eGovernment and mobile information systems. He has published around 175 refereed papers in journals, books and archival proceedings since 1991.