



# Mira Kajko-Mattsson

## ASSOCIATE PROFESSOR IN SOFTWARE ENGINEERING

### Personal details

Mira Kajko-Mattsson

School of Information and Communication Technology

KTH Royal Institute of Technology

e-mail: [mekm2@kth.se](mailto:mekm2@kth.se)

phone: +46 8 790 44 16

mob: +46 73 460 80 16



## About Mira Kajko-Mattsson

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Mira Kajko-Mattsson is Associate Professor in software engineering at *School of Information and Communication Technology* at *KTH Royal Institute of Technology*. Her expertise lies in industrial lifecycle software processes. The primary objective of her research is to educe theory about various lifecycle processes, put this theory into process models, evaluate the effects of changing technologies and working patterns on the lifecycle processes and make suggestions for their improvement.

The process models created by Kajko-Mattsson encompass the whole software system lifecycle, that is, from the identification of a need for a software system till software retirement. Kajko-Mattsson is an active member of SEMAT as a co-creator and co-founder of a newly accepted software engineering OMG standard, called Essence, establishing a basis for software engineering theory (<http://www.omg.org/spec/Essence/>).

### About the keynote titled **Killing Several Birds with One Stone**

Many opinions and complaints proliferate that graduate students are poorly prepared for their future software engineering careers. Reasons are many. One of them is that the domain of software engineering is vast and difficult. It requires solid experience and exposure to various software engineering endeavors that are difficult to teach and simulate within the frame of undergraduate educational programmes.

It is not easy to decrease the gap between the simulated academic and authentic industrial development endeavors. Probably, it is next to impossible. Compromises have to be made in one way or the other. In this keynote, Kajko-Mattsson is going to present how compromises can be made using ESSENCE, the recently adopted OMG software engineering standard. So far, ESSENCE has been taught for five years on an elective course within an undergraduate degree programme in Information and Communication Technology at KTH Royal Institute of Technology. Kajko-Mattsson is going to provide a historical account of the five-year education of ESSENCE as she has experienced it. She will explain how many important subjects of software engineering (how many birds) can be effectively taught (*killed*) with Essence (*with one stone*).