



KTH Innovative Centre for Embedded Systems

NEWSLETTER JUNE 2014

This newsletter provides dates for a series of forthcoming ICES events that we hope that you will find interesting. Please mark relevant dates in your calendar already now, especially for the conference and members meeting! Also forward to colleagues as appropriate, and do remember that you, as an ICES member, have the opportunity to propose other events, as well as to participate in the ICES focus groups (see below)! We wish you a very nice summer and hope to see you at our events during the autumn!

➤ FORTHCOMING ICES EVENTS! (see the [ICES Events Calendar](#))

- ☒ **July 1:** Guest lecture by Bernhard Josko, OFFIS: “[Challenges in the Design of Systems of Systems](#)”. Bernhard will talk about the challenge of interconnecting systems of systems (SoS), which may come from different manufacturers, evolve, and are prone to unauthorized access. He summarizes the experiences from the DANSE project on adaptable and evolvable such systems.
- ☒ **August 26:** Workshop och match-making event “[Hur bör framtidens utbildning av ingenjörer inom Inbyggda system och närbesläktade områden såsom Cyber-Physical Systems, Mekatronik, Internet of Things, Data, IT och Elektro utformas?](#)”. Utbildningsväsendet står inför utmaningar när allting blir uppkopplat och med allt snabbare teknikutveckling. Det som tidigare var enkelt, att skilja ”embedded” från ”IT” utgör idag en gråskala. Graden av nätverkande ökas och användningen av programvaruintensiva system suddar ut den traditionella uppdelningen mellan discipliner och domäner. Systemkomplexiteten ökar och därtill process och organisationskomplexitet. Livscykelaspekter blir allt mer väsentligare. Denna utveckling ger upphov till frågan om våra nuvarande utbildningar är tillräckliga för framtiden? Behöver vi utveckla nya ”multidisciplinära” program eller behöver vi nya utbildningar som ger andra grundfundament? Hur lång bör teknikutbildningen vara? Bör större vikt läggas på livslångt lärande – och vidareutbildning?
- ☒ **September 25:** Swedsoft arranges [STEW 2014](#) (Software Technology Exchange Workshop).
- ☒ **October 2:** Co-organized workshop with Swedsoft: “[Agile, Safety and Innovation – synergies and tensions when best practices meet in the development of software intensive systems](#)”. The interest for Agile development approaches has increased remarkably within industrial product development. Stemming originally from smaller scale software engineering, the approaches have been adopted to large-scale development often involving software as well as hardware, frequently in conjunction with strict demands on quality and related non-functional aspects, such as safety. The purpose of the workshop is consequently to highlight and discuss the identified concerns, tensions and ideas for how various best practices can be merged to form improved development processes.
- ☒ **October 22 (preliminary date):** Seminar: “[Requirements management for embedded systems](#)”, focusing on the challenges seen in actual real-world development in ensuring that requirements are written in an understandable, usable and complete way. What are the current approaches to requirements management in research? What are the practical challenges?
- ☒ **November 4-5:** [Embedded Conference Scandinavia](#) (ECS) at Kistamässan. ICES will be present with our own seminar during the conference. Mark the day already now!
- ☒ **November 18:** Preliminary date for the [ICES member meeting](#) (morning) and **Conference** (afternoon). Please mark the date in your calendars already now!

➤ FOCUS GROUPS

The work in the focus groups is starting to take good shape. We are still looking for more participants that can join in during the autumn – if you have a person you think are relevant for the work in the focus groups, please contact the respective contact person for the focus group.

Architecture for autonomous systems
Sagar Behere KTH/ITM, E-mail: behere@kth.se

Safety
Focus on functional safety
Fredrik Asplund KTH/ITM, E-mail: fasplund@kth.se

R & D managers
Providing a networking group for R & D managers
Anders Eklund ICES, E-mail: anders.eklund@prevas.se

Embedded realtime systems
Ingo Sander KTH/ICT, E-mail: ingo@kth.se

Testing of embedded systems
Karl Meinke KTH/CSC, E-mail: karlm@nada.kth.se

Wireless
Carlo Fischione KTH/EES, E-mail: carlofi@kth.se

➤ RECENT ICES EVENTS! (see [ICES Previous Events](#))

2014-05-27 [Engineering Safe Vehicles - Scientific Paper Writing Workshop](#)
 2014-05-26 [Engineering Safe Vehicles Workshop](#)
 2014-05-22 [NoSE 2014 Nordic Systems Engineering Tour](#)
 2014-05-21 [ICES Focus group R & D Managers meeting](#)
 2014-05-20 [Multi-processor Systems on FPGA with hands-on tutorial](#)
 2014-05-08 [KTH Lab Tour](#)

➤ LAB INVENTORY

During summer and autumn, ICES will conduct a lab inventory of the different labs at KTH related to embedded systems, in order to find potential synergies and opportunities. The initial part will be conducted by Magnus Persson. For inclusion of your lab, please contact him at: magnper@md.kth.se

- **CONTACT US:** We welcome your ideas and questions! Please e-mail: ices-admin@md.kth.se in the first instance.

With Best Wishes as Always!

P.S. We hope you won't, but if you would like to **UNSUBSCRIBE**, please e-mail us at: ices-admin@md.kth.se using “ICES Unsubscribe” in the subject line.