
CCSSE'01
ProNova, Norrköping
Wednesday, March 14

- 9.00 Registration
- 9.15 **Opening of CCSSE'01 by Ecsel's program director Lars Nielsen**
- 9.20 **From an academic research project to an IPO - a short story about Focal Point AB**
Invited speaker Joakim Karlsson
Conference room Resursen
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10.00 - 10.30 Coffee

10.30 - 11.50 Parallel sessions

Session 1: Theory & Architecture

Chairperson: Patrick Doherty
Conference room Resursen

- 10.30 **A Deployment System for Pervasive Computing**, Jesper Andersson
- 10.50 **Review of Support for Resource Management in CORBA-based Architectures**,
Calin Curescu, Simin Nadjm-Tehrani
- 11.10 **A Convex Relaxation of a Minimax MPC Controller**,
Johan Löfberg
- 11.30 **Superimposed codes for the Euclidean additive channel**,
Danyo Danev

Session 2: Applications

Chairperson: Simin Nadjm-Tehrani
Conference room Pedagogen

- 10.30 **Comparative study on first and second order ILC -- frequency domain analysis and experiment**, Mikael Norrlöf
- 10.50 **Model-Checking Based Fault Isolation in UML**, Dan Lawesson
- 11.10 **Range estimation using angle-only target tracking with particle filters**,
Rickard Karlsson, Fredrik Gustafsson
- 11.30 **A Modelica-Based Language for Object-Oriented Modeling with Partial Differential Equations**,
Levon Saldamli, Peter Fritzson
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12.00 - 13.30 Lunch at ProNova Restaurant

13.30 - 14.30 Session 3: Trends in Communication

Chairperson: Fredrik Gustafsson
Conference room Resursen

- 13.30 **Resource Management for Wireless Communications**, Fredrik Gunnarsson
- 13.50 **An Adaptive Approach in providing E-services for Mobile Devices**,
Ioan Chisalita, Nahid Shahmehri
- 14.10 **On Protocol Processing**, Ulf Nordqvist

14.45 - 15.50 Poster session

Chairperson: Nahid Shahmehri

Conference room Modemet

(Coffee + cookies is available in the poster room).

Scheduling of Simulation Code from Equation-Based Simulation Languages for Multiprocessor Architectures, Peter Aronsson

Experimenting with Extreme Programming in Graduate Software Engineering Education, Peter Bunus, et al

Type-Sensitive Static Slicing, David Byers

Recreating Failures Caused by Fault Injection, Carl Cederberg

Blind Equalization of static Nonlinearities in SA-ADC, Jonas Elbornsson

TCP Performance based on Queue Occupation, Frida Gunnarsson

Fault Detection and Isolation Approaches in Flow-Pressure Networks, Anna Hagenblad

From Planning to Scheduling (and More), Patrik Haslum

Chronicle Recognition in the WITAS UAV Project - A Preliminary Report, Fredrik Heintz

Security Issues in E-Home Network and Software Infrastructures, Almut Herzog, et al

Autonomous Helicopter Control Using Fuzzy Gain Scheduling, Bourhane Kadmiry, et al

Recursive state estimation of nonlinear systems, Per-Johan Nordlund, Fredrik Gustafsson

Function Coding of Images, K-G Stenborg

Closed Loop Identification of the Physical Parameters of an Industrial Robot, Måns Östring

Admission Control in Cellular Radio Systems Based on Relative Load Estimates, Erik Geijer Lundin, Fredrik Gunnarsson

16.00 - 17.00 Session 4 Some Perspectives

Chairperson: Mariam Kamkar

Conference room Resursen

16.00 **Backstepping designs for aircraft control - What is there to gain?** Ola Härkegård

16.20 **Internet Based Technology for Electronic Habitats**, Erik Sandewall

16.40 **Some experiences from an ECSEL-doctor at the Saab Group**, Niclas Bergman

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17.00 - 19.15 Time for light physical activity

19.30 - 20.15 Ceremony: Ecsel's Ph.D:s receive their diplomas
Conference room Resursen

20.15 Dinner

ProNova Restaurant

9.00 - 10.00 Session 5: Test, Monitoring, and Planning

Chairperson: Ulf Nilsson

Conference room Resursen

- 9.00 **Analysis of the Constraint Solver in UNA Based Test Data Generation,**
Jon Edvardsson, Mariam Kamkar
- 9.20 **Supporting the Java Programmer Using DHTML: the Dynamic Javadoc System,**
Erik Berglund
- 9.40 **TALplanner: A Temporal Logic Based Planner,**
Jonas Kvarnström, Patrick Doherty
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10.00 - 10.30 Coffee break

10.30 - 11.50 Parallel sessions

Session 6: Software and Hardware

Chairperson: Lars-Inge Alfredsson

Conference room Resursen

- 10.30 **Dynamic Updating of Computer Programs - Proposed Improvements to the JDrums Updating System,**
Jens Gustavsson
- 10.50 **Challenges in analog VLSI,**
Mattias Duppils
- 11.10 **Hard Real Time Reference Counting without External Fragmentation,**
Tobias Ritzau
- 11.30 **Code Generation: Isolated versus Integrated Approaches,** Andrzej Bednarski

Session 7: Modeling & Identification

Chairperson: Torkel Glad

Conference room Pedagogen

- 10.30 **Event Based Sampling with Application to Vibrational Analysis in Pneumatic Tires,** Niclas Persson
- 10.50 **Variance properties of a two-step ARX estimation procedure,**
Fredrik Tjärnström, Lennart Ljung
- 11.10 **Comparison of two Exhaust Manifold Pressure Estimation Methods,**
Per Andersson
- 11.30 **Identification of Piecewise Affine Wiener Models via Mixed-Integer Programming,**
Jacob Roll
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