CCSSE'99

ProNova, Norrköping
Thursday, October 21

9.00	*Registration*

9.15	**Opening of CCSSE'99 by ECSELs program director Lars Nielsen.** Conference room Resursen.
9.20	**WCDMA - Architecture and Quality of Service** Invited speaker: Magnus Frodigh, Ericsson Radio Systems, Kista.
10.00	*Coffee*

Session 1 Testing, Checking and Supervision
Chairperson Lars Nielsen
Conference room Resursen

10.30	**On-the-Fly Model Checking of CTL Formulas using Constraint Logic Programming** Johan Lübcke, Ulf Nilsson
10.50	**Order of Residual Generators - Bounds and Algorithms** Erik Frisk
11.10	**A Survey on Automatic Test Data Generation** Jon Edvardsson
11.30	**Model Checking by Random Walk** Patrik Haslum

12 - 13.30	*Lunch at ProNova restaurant.*

Session 2 Infocom
Chairperson Fredrik Gustafsson
Conference room Resursen

13.30	**Parameter Estimation in Cellular Radio Systems** Fredrik Gunnarsson, Jonas Blom, Fredrik Gustafsson
13.50	**Identification of AD converter** Jonas Elbornsson

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Poster and Demo Session
Chairperson Mariam Kamkar
Conference room Resursen
14.10 -14.40   Short presentations of posters and demos, two minutes each.

Conference room Tangenten
14.40-16.00   Poster and demo session

Poster/demo   **Integration of Large-Scale Mechanical Model Simulation and Landscape Models**
Levon Saldamli

Demo   **Use-Oriented API Reference Documentation**
Erik Berglund

Poster   **Longitudinal Aircraft Control Using Backstepping**
Ola Härkegård

Demo   **Remote Controlling of Residential: Perspectives on Project Oriented Study in Software Engineering**
Carl Cederberg, Jone Edvardsson

Poster   **Towards Remote Software Delivery using Secure Multicast Group Establishment**
Lin Han, Nahid Shahmehri

Poster   **Experiment-Based Methodology for Modeling of SER in Modern CMOS Technologies**
Peter Hazucha, Christer Svensson

Poster   **A Mixed Analog/Digital Multiply-Accumulate Unit Suitable for Implementation with CMOS Technology**
Mattias Duppils

Poster   **An efficient implementation of the two-phase commit protocol**
Iakov Nakhimovski, Andrew Tsirkin

Poster   **Abstract Post Mortem Fault Isolation for Object Based Systems**
Dan Lawesson

Poster   **Ion Current Interpretation for Sensing and Control of Combustion Stability**
Ingemar Andersson, Lars Eriksson

Poster   **LQG Control of a Flexible Servo**
Måns Östring, Svante Gunnarsson

Demo   **Dynamic Deployment of Java Applications**
Jesper Andersson, Pär Danielsson, Torbjörn Hultén,Tobias Ritzau

Coffee will be served during the poster and demo session.

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Session 3 Reasoning, Learning and Control
Chairperson Lasse Alfredsson
Conference room Resursen

16.10   **A model based iterative learning control method applied to an industrial robot**
Mikael Norrlöf, Svante Gunnarsson

16.20   **Towards a Complete Classification of Tractability in Point Algebras for Nonlinear Time**
Mathias Broxwall

16.40   **Invariance of Approximating Automata for Piecewise Linear Systems**
Jacob Roll

17.15-18.15   **Guided tour in Norrköpings "industrial landscape".** We walk (outdoors) through this special part of Norrköping and learn some about its history. We will pass by Campus Norrköping which is situated in this area.

18.15-19.30   *We check into our hotels.*
It is about 0,4 km to ProNova hotel and about 1,1 km to First Express Hotel.

Ceremony : ECSEL Ph.D's receive their diplomas
Conference room Resursen

19.30   **Lars Eriksson, Urban Forssell and Mattias Nyberg will receive their ECSEL diplomas.**
They will tell us about their work today. What does a fresh Ph.D. do?

Around 20.00 Dinner at ProNova restaurant.

The ProNova bar will be open after dinner.
Troubadour Peter Axelsson, will entertain us with music during the evening.

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Session 4 Architecture Issues
Chairperson Peter Fritzson
Conference room Resursen

9.00   **Syntax-Directed Construction of Value~Dependence Graphs**
David Byers, Ture Pålsson

9.20   **An Integrated Interactive Development Environment for DSP Software based on Mathematica and MathCode**
Peter Aronsson

9.40   **Modeling and Architecture Examples of Model Based Engine Control**
Per Andersson, Lars Eriksson, Lars Nielsen

10.00   **Decision Making for Make vs.Buy of Software Components**
Yuxiao Zhao, Mary Helander, Kristian Sandahl, Joachim Karlsson

10.20   *Coffee*

Session 5 Modeling and Control
Chairperson Torkel Glad
Conference room Resursen

10.50   **Bootstrap as a Tool for Estimating the Uncertainty in Dynamical Models**
Fredrik Tjärnström

11.10   **Use of the Analysis of Variance Method for Model Order Selection of N-FIR Models**
Ingela Lind

11.30   **Backstepping with local LQ performance and global approximation of quadratic performance**
Johan Löfberg

11.50   Final words from program director Lars Nielsen.

12.00   *Lunch at ProNova restaurant.*

13.00   *The bus leaves for Linköping University.*