THE SWEDISH FOUNDATION FOR STRATEGIC RESEARCH
AND VINNOVA

Software for Competitiveness Big Data and Other Frontiers

14 NOVEMBER 2017

STOCKHOLM CITY CONFERENCE CENTRE (NORRA LATIN), DROTTNINGGATAN 71 B

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WELCOME TO THE THIRD JOINT SSF-VINNOVA CONFERENCE

Software for Competitiveness Big Data and Other Frontiers

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A digitalization wave is spreading through the world. Access to very big data samples, and automatic services to extract human-relevant knowledge from the data flow will change our industry and society. ICT is the core technology behind this revolution. SSF and Vinnova work to support Sweden's academy and industry to be competitive in ICT research and development. Welcome to be inspired by this conference!

SSF funds academic research in support of Swedish competitiveness with an emphasis on framework programmes like the 100 million SEK Information-Intensive Systems, and the 200 million SEK Big Data and Computational Science, both presented at this conference. These are complemented by various grants to primarily young individual researchers.

Vinnova supports Sweden's digitalization through several initiatives. International ICT R&D cooperation is supported by approx. 150 MSEK/year through various programs: EU ECSEL JU, EUREKA ICT clusters, Eurostars and bilateral activities. Vinnova also acts for Sweden in steering and support of the EU LEIT-ICT program (approx. 250 MSEK/year from EU to Sweden). Most of these programs and some key projects are presented at this conference.

Please register for the conference at **Registration** not later than **6 November.**

AGENDA

8.30 **Registration and Coffee**

9.30 **Welcome!**
Charlotte Brogren, Director General Vinnova
Lars Hultman, CEO SSF

9.40 **Keynote Session**
Chair: *Lena Holmberg,* Business Developer, The City of Trollhättan

E2E-Clouds, Big Data and Business
Seif Haridi, KTH Royal Institute of Technology & RISE SICS

Digital Maturity in Sweden - Leaders and Laggards
Irene Ek, Swedish Agency for Growth Policy Analysis

Innovation, Gender and Software - State of the art in Sweden and on the Global Scene
Inger Danilda, Quadruple Learning AB

10.40 **Break**

10.50 **SSF projects in Information-Intensive Systems**
Chair: *Jonas Wallberg,* Teknikföretagen

DADEL, **High-Performance Data Mining for Drug Effect Detection**
Henrik Boström, Stockholm University + *Mia Kvist*, Karolinska University Hospital/Stockholm University

Virtual Photo Set, Data-driven scene characterization for realistic rendering
Anders Ynnerman, Linköping University

Ralf 3, Software for Embedded High Performance Architecture
Ivica Crnkovic, Chalmers University of Technology/ Mälardalen University

DataBIN, Data-Driven Secure Business Intelligence
David Sands, Chalmers University of Technology

11.50 **Lunch and poster session**

12.50 **SSF projects in Big Data and Computational Science**
Chair: *Agneta Jacobson*, Teyi AB

Integrated VISualization of Intra-Tumor Heterogeneity
Nicola Crosetto, Karolinska Institute

Continuous Deep Analytics
Seif Haridi, KTH Royal Institute of Technology & RISE SICS

Large Scale Machine learning for the SingleCell Revolution
Jens Lagergren, KTH Royal Institute of Technology

Integrative precision medicine: local data, global context
Sven Nelander, Uppsala University

In-Situ Big Data Analysis for Flow and Climate Simulations
Tino Weinkauf, KTH Royal Institute of Technology

Deep Brain Stimulation: Data Analysis for Clinical Support
Karin Wårdell, Linköping University

13.30 **International software-related ICT programs**
Chair: *Jonas Bjarne*, Vinnova

The EU LEIT-ICT program 2018-2020 and the Swedish position on the next EU Research Framework Programme (FP9)
Johan Harvard, Deputy Director, Swedish Ministry of Enterprise and Innovation

The EU Next Generation Internet Swedish Node
Rebecca Steinert, Head of the Network Intelligence Group, RISE SICS

The EU ECSEL JU Initiative
Laila Gide, President, ARTEMIS Industry Association

14.30 **Coffee and poster session**

15.00 **Finland - Sweden biliateral matchmaking and cooperation in ICT**
Tom Warras, Tekes – the Finnish Funding Agency for Innovation, Finland

The EUREKA ITEA software cluster
Philippe Letellier, ITEA Vice-chairman

The Vinnova Program on Digital infrastructure and Cybersecurity
Anna Chiara Brunetti, Vinnova

15.50 **Vinnova projects in software-intensive systems**
Chair: *Andreas Allström*, Vinnova

EU ARTEMIS JU Arrowhead
Service interoperability enabling collaborative automation

and

EU ECSEL JU Productive 4.0
Electronics and ICT as enabler for digital industry and optimized supply chain management covering the entire product lifecycle
Jerker Delsing, Luleå University of Technology

EUREKA ITEA TESTOMAT
The Next Level of Test Automation
Sigrid Eldh, Ericsson AB

EUREKA Celtic Plus SENDATE-EXTEND
A holistic approach on automation in data centers
Tor Björn Minde, RISE SICS North

EUREKA ITEA ENTOC
Engineering Tool Chain for Efficient and Iterative Development of Smart Factories
Atieh Hanna, Volvo Trucks AB

16.40 **Drinks, discussions and posters**

17.30 **End of conference**

THE SWEDISH FOUNDATION FOR STRATEGIC RESEARCH

- Supports research and postgraduate studies in science, engineering, and medicine by approximately SEK 600 million a year for the purpose of strengthening Sweden's future competitiveness.
- Creates bridges between basic research and exploitation of research results.
- Funds several hundred research projects at higher education institutions – many in collaboration with industry and research institutes.
- Awards grants to progressive research leaders, with an emphasis on the talented young.
- Launches targeted initiatives aimed at such areas as information and communication technology, bioengineering, and materials development.

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VINNOVA

- Vinnova is Sweden's innovation agency. We promote sustainable growth by improving the conditions for innovation and by funding needs-driven research.
- We promote collaborations between companies, universities, research institutes and the public sector. We do this by stimulating a greater use of research, by making long-term investment in strong research and innovation environments and by developing catalytic meeting places. Our activities also focus on strengthening international cooperation.

VINNOVA

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