

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), DROTNINGGATAN 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 Weinkauff, KTH Royal Institute of Technology
- Deep Brain Stimulation: Data Analysis for Clinical Support**
Karin Wårdell, Linköping University
- Hierarchical Analysis of Temporal and Spatial Image Data**
Carolina Wählby, Uppsala University
- 13.30 **International software-related ICT programs**
Chair: *Jonas Bjärne*, 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 bilateral 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.



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