CSC – Workplace meeting

2013-02-13

New professor promotion

- Joakim Gustafsson, TMH
Affiliated professor, CESC

Lorenz Hilty, University of Zürich

Biography
Lorenz Hilty is Head of the Technology and Society Lab at Empa, the Swiss Federal Laboratories for Materials Science and Technology, and Professor of Informatics and Sustainability at the Department of Informatics at the University of Zurich. He published fundamental work on Environmental Informatics and related fields. His current research interests include the assessment of ICT with regard to sustainability, applications in the contexts of environment or development, as well as methods and principles that lead to sustainable solutions.

Affiliated professor, CVAP

• Ivan Laptev, Computer Vision

Ivan Laptev: Advancing Computer Vision

Ivan Laptev is one of the four INRIA candidates selected for a European Research Council (ERC) grant in the young researchers category 2012. His subject, “Computer Vision”, aims to mimic the human visual system thanks to algorithms that analyze motion, detect events and recognize objects in video sequences. He explains his work to us in more detail and outlines some potential applications.

"Computer vision is a branch of computer science related to several disciplines including mathematics, cognitive science, computer graphics and machine learning. Its goal is to interpret images and videos in a way similar to the human visual system and develop algorithms to this end," says Ivan.

The ERC grant, worth 1.5 million euros, will help him and his colleagues develop their research and in particular go beyond simple object recognition to something that’s more useful. For instance, in a video scene, the system could be able to observe a person who is moving and trigger a reaction, alerting someone else about what these objects might do next. This would be done by analysing interactions between the objects and developing statistical models that describe these interactions.
Positions in the pipeline

• Associate professorship in Computer Science with a specialization towards robotics, mobile systems and sensor fusion
• Assistant professorship in Machine Learning
• Assistant professorship in Autonomous systems
• Assistant professorship in High Performance Computing
• Re-advertising the professorship in Visualization
• Re-advertising the associate professorship in Media technology

Messages from our Research Dean

Danica Kragic Jensfelt
SVP Voice 2011-2012

Outcomes
• numerical model of silicon rubber vocal folds oscillates, proof-of-concept
• prestudy of vocal tract 3D control parameters
• overview of laryngeal neuromotor systems
• participation in ICVPB in Erlangen
• EU FET-Open application “Eunison”, submitted and funded, 5 partners, 3 M€ (1 M€ to KTH), 2013-2016

Upsides of SVP
• necessary catalyst for inter-departmental collaboration
• very helpful lubricant/prestudy for larger applications
• good for trying out new ideas
• good for CSC image

Lessons learned
• time-on-task was limited (5-10% per person for a year)
• don’t spread it out over too many people
• keep it simple – a year is short
SVP Sign
Robust Recognition of Swedish Sign Language Signs

- **Upplägg:**
  - Examensarbete + 6 mån fortsatt proj. anställning (Saad Akram)
- **Resultat:**
  - Framgångsrika experiment med igenkänning av isolerade tecken från video/kinect
  - Databas med kinect-inspelade tecken
  - Ökat samarbete TMH-CVAP
- **Vad händer nu?**
  - Arbetet med teckenspråk fortsätter på TMH inom Tivoli-projektet (PTS)

Saad Akram, Jonas Beskow and Hedvig Kjellström
Interactive Head project: TMH & CVAP

• Goal: Build a common research platform for face-to-face interaction between robots and people
• Specification:
  - Moveable neck
  - 3D camera (Kinect)
  - Microphone, loudspeakers
  - Animated mouth, eye brows
• Test in a dialogue setting (SAVIR project)

• What can it do?
  - Control the mechanical neck, eyes, eyebrows and projected lips synchronized with speech via TMH’s ‘Broker’ interface.
  - Kinect gives 3D point cloud from robot head.
  - Microphone array for sound source localization.

This is the Result
Lessons Learned

- Hire the right person for the task.
- Timing was very difficult as most of the work came at month 8 of a 9 month project.
- The project has caused us to work across groups. We know one another now.

News from Grundutbildningsansvarig (GA)

- Olov Engwall
Evaluation I: HSV

- Visit by the panel April 24th
- Decision expected this summer

Mycket hög kvalitet, Hög kvalitet, Bristande kvalitet

Strong point

Potential weak points: sustainability, ethical aspects, thesis work should be a scientific study

- If “Bristande kvalitet”
  - This will be shown on HSV’s webpage
  - One year to correct problems. Otherwise we loose the right to graduate students.

Evaluation II: Mellanårsenkäten

More than 25% of students at Datateknik state that there is a Very good progression between courses.
Evaluation II: Mellanårsenkäten

Utbildningens ämnesinnehåll och pedagogik “Till de mest missnöjda hör de som läser … Medieteknik. “

“Huruvida kurserna hänger ihop …mer än var femte student på … Medieteknik i svarsalternativet ganska dåligt. “

“40% på … Medieteknik att lärarna endast har gjort ämnet intressant på några kurser.”

41% av studenterna på Medieteknik … nuvarande utbildningsprogram underträffar deras förväntningar.”

23% på Medieteknik hade valt samma program igen.

News from Forskarutbildningsansvarig (FA)

• Erik Fransén
Doctoral programmes

- PA Computer Science – Dilian Gurov
- PA Mediated Communications – Henrik Artman (from Jan 1, 2013)
- Quality work
- PhD courses
- Improving work environment and working conditions for all PhD students, regardless of employment form

News from Chief of Staff

- Mattias Wiggberg
Maria Widlund

**Short bio**
HR-manager, Amnesty Sweden
HR-manager, Framfab
HR-manager (dept.) & HR-strateg (central), Karolinska Institutet
HR-manager Sweden, Itella Information (Finnish postal service)
1 April, first day at work at CSC/KTH

Sara Hasselgren Johansson

**Short bio**
Administrator, finance/CSC
Project manager, IT/CSC
1 Feb Service Center Manager, IT/CSC
CSC meeting rooms

Anderz Petersson
Anderz Petersson

- Good luck in the future!


- Total income 356 (363)
- Total costs 354 (356)
- Net amount 2 (7)
Resultat per verksamhet
Motsvarande perioder varje år

CSC Omsättning år 2012 356M

Gruanslag 28%
Fofuanslag 28%
Externa medel 44%

CSC Omsättning år 2012 356M

Resultat totalt
Varav utb
Varav forskn.
Ofordelat stöd
**Fördelning av fofumedel på CSC 2013**

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<th>Från rektor</th>
<th>Fördelas på skolan</th>
<th>Till avdelning</th>
<th>Till projekt</th>
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- Direkt riktat till projekt/person → 44 M
- Skolans satsningar → 15 M
- Medfinansiering direkt till projekt → 15 M
- Grundpeng till avdelning → 10 M
- RAE-bonus och riktade satsningar → 3 M
- Dekans medel 2 M
- Examinationsmedel till avdelning → 7 M
- Skolan 2 M → 20 M → 74 M

**RAE 2012**

- UoA 13.1 Theoretical Computer Science
- UoA 13.2 Applied Computer Science
- UoA 13.3 Mediated Communications
- UoA 1.4 Numerical Analysis
RAE 2012

- UoA 13.1 Theoretical Computer Science
- UoA 13.2 Applied Computer Science
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- UoA 1.4 Numerical Analysis

Figure 5: Total turnover for each UoA from government education funding (GRU, red), government external funding (Ext, blue) and research funding (FoR, green) for the period 2008-2011 (ranked by FoR+Ext).
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RAE 2012

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RAE 2012 – konsekvenser för 2013

• Delfinansiering för biträdande lektorat i
  - Autonoma system
  - Speech technology
  - Computational biology
  - High performance computing

Övriga resultat i rektorskontraktet

• Small Visionary projects
• Startbidrag för professorer för att anställa doktorander
• Infrastruktur
  - Robotlab
  - Multimedia lab
  - Det rörliga kontoret
• GRU-satsningar (återkommer till våren)
CSC – School of Computer Science and Communication

A Digital version of Numero – because it’s time to move forward
History

• Started in 1971
• 2013 is the 43rd season of Numero
• No 5 2013 is the last paper issue

Lars Kjelldahl

• The founder and first editor of Numero
• Here to close the circle!
Numero appeared in September 1971 inspired by Bråket
The name suggested by Håkan Ramsin

Meeting for the department in the room of Germund Dahlquist

Limited time on the computers owned by QZ at Linnégatan

Social activities:
- Running in Lilljansskogan
- Expedition on Kungsleden (ski)
- Soccer
Many contributions of various kinds
- Yngve
- Kalle
- Peter
...
Examples here by Peter Pohl
- Rebus
- The language we own

Why a Digital Numero???
This is why

- To minimize the information overflow
- To "build our brand"
- To improve the interaction between Numero and our website and Intranet

Minimize the information overflow

- Paper Numero – lots of long texts, takes time to get through, info is repeated
- Digital Numero – short excerpts, links to more information, no repeated info

- Paper Numero – all information for everyone everywhere, not sorted out
- Digital Numero – easy to navigate and find the specific information you are interested in
Build our “brand”

• We want to be digital role models

• An too old internal newsletter system does not fit our image as a high technology school and research environment

Improve interaction between Numero and our website and Intranet

• CSC have a great website, and (soon) a great Intranet

• Digital Numero will interact with our web/Intranet

• Thanks to this, you will learn to use our sites more, and be able to access info earlier
Example – Gulans blog

• Last week, we promoted Gulans new blog in paper Numero and on our website

• 87.5 percent of the traffic came from our website
• Traffic from paper Numero – 12.5 percent, or less
The New Look

- Short news
- Calendar
- Staff information
- Everything is linked to extended info, often at the web or the Intranet

Questions?

- Ask me anything!
CSC-school awards ceremony

Employee of the Year

• Former ‘Handklaveret’

• Slightly updated statutes

• From the statutes

... is awarded to a member of staff at the School of Computer Science and Communication (CSC) who has made a significantly contribution to the development of the school...
Leader of the Year

• Former ‘Flexibla ledarbörnen - Ingrids pris’

• Slightly updated statutes

• From the statutes

... is awarded to an employee for meritorious achievement [...] through strong leadership that makes the school an attractive [...] environment for staff and students...

New pedagogical prizes

• Årets lärare

• Årets övningsassistent

• Will be awarded at the end of the study year (June) 2
• Change of “trophies”/prize (TBA)
• Continue to nominate!
Take care out there!