Site visits in Machine Learning

The candidates for the tenure track position in machine learning will visit Aalto University in Jan 29 – Feb 2. Please find below the detailed schedule for all job talks (60 minutes including discussion) and teaching demonstrations (20min + 10min discussion).

The teaching demonstration topic is “Stochastic gradient algorithms for machine learning” and the target group of the teaching demonstration: Master’s level course on machine learning, the first lecture on optimization.

These are public events – welcome!

Mon 29.1. Glowacka Dorota

- Job talk at 13:00 at TUAS 1171-72. Presentation title: Machine Learning meets the user: empirical parametrization of exploratory search systems
- Teaching demonstration at 14:30 at TUAS 1023

Tue 30.1. Heinonen Markus

- Job talk at 15:00 at TUAS 1021. Presentation title: Towards next-generation representational learning
- Teaching demonstration at 13:00 at TUAS 1021

Thu 1.2. Marttinen Pekka

- Job talk at 16:00 at T3. Presentation title: Machine learning for health

Fri 2.2. Solin Arno

- Job talk at 13:00 at TUAS 1171-72. Presentation title: Machine Learning for Sensor Fusion in Positioning and Navigation
- Teaching demonstration at 14:00 at TUAS 1171-1172

Recruitment

4 professor positions in University of Helsinki

The Faculty of Science invites applications for four (4) positions of ASSISTANT PROFESSOR / ASSOCIATE PROFESSOR / PROFESSOR in Computer Science

in the following areas:

1. Data Science Machine Learning and AI
2. Knowledge Discovery in Big Data Example Domains Include Atmospheric Applications and Other Areas of Data Science
3. Data Science Special Emphasis on Software Engineering Research
4. Privacy-aware and Secure Data Science

For further information, please visit [here](#).

Several Postdoctoral Researcher and Research Fellow Positions in ICT (Helsinki, Finland)

Deadline for applications is **31 January 2018**. For further information, please visit [here](#).

Helsinki ICT network: Positions for Exceptional Doctoral Students

The online application form closes **31 January 2018**. For more information and application instructions, go to [HICT webpage](#).

FIMM-HIIT Doctoral student call 2018

Call deadline is **8 February 2018**. For further information, please visit [here](#).

Events

Today

**Rajapinta Meetup**

Rajapinta is a scientific community to facilitate research in areas mixing information technology and the society; including social science research using computational methods or reflecting the implications of technology to our society.
We organize monthly meetups to discuss current research in these areas. The next meetup is on **Friday 26.1. at 14:00** in the Faculty Council Meeting room at the Faculty of Social Sciences (Unioninkatu 37, Helsinki, first floor). The first meetup of the year is dedicated to open stage introductions of fresh or soon starting research projects and having a townhall meeting for the Rajapinta-community.

If you are participating in a fresh research project or a one that will soon begin, you are welcome to come and shortly (5-10 minutes) introduce it to others. If you wish to do this, we would appreciate if you could inform us about this a bit beforehand to meetup@rajapinta.co.

We would appreciate if you either sign up for the event in Facebook or send an e-mail to meetup@rajapinta.co if you are planning to attend so that we would know how much snacks we should get.

**Next week**

**Tenured Professors’ Installation Lectures**

Welcome to hear about Aalto University’s research on **Wednesday 31.1.2018 at 14:15** in Dipoli. Aalto University celebrates its tenured professors with popular lectures by the new tenure track professors of Associate or Full level. All lectures will be held in English and are open for everyone: professors, students, faculty, staff, and the public. The multidisciplinary lectures will be followed by a reception hosted by Iikka Niemelä, the President of Aalto University. Read more in Inside.

Lecturers and topics:

- **Günther H. Filz**: “Form Matters and Why Form matters in fat-free Design” (ENG, Department of Civil Engineering & ARTS, Department of Architecture)
- **Tomi Laurila**: “Carbon nanomaterials for health applications” (ENG, Department of Electrical Engineering and Automation)
- **Otto Toivanen**: “Origins and beneficiaries of invention” (BIZ, Department of Economics)

**Helsinki Algorithms Seminar**

**Helsinki Algorithms Seminar** is a weekly meeting of researchers in the Helsinki area interested in the art of algorithms and algorithm design.

**Speaker:** Professor Parinya Chaipermsook  
**Title:** Dynamic Programs meet Linear Programs: Approximation Algorithms for Group Steiner Problems on Low-Treewidth Graphs  
**Date:** Thursday 1.2.2018 at 16:15-17:00  
**Venue:** T5, CS building

**CS Forum**

**CS Forum** is a seminar series arranged at the CS department. The talks are intended for presentations of doctoral level researchers, both for visiting and CS-department-based researchers. The talks are open to everyone free-of-charge.

**Speaker:** Dr. Kari Kostiainen, ETH Zurich  
**Title:** PRCash: Centrally-Issued Digital Currency with Privacy and Regulation  
**Host:** Professor N. Asokan  
**Date:** Thursday 8.3.2018 at 14:15-15:00  
**Venue:** TU1, Maarintie 8

**Demo Day 2018**

Next Demo Day will be held on **Wednesday 20.6.2018** in CS building. This event is jointly organized by the Secure Systems Group at Aalto University and the University of Helsinki. The Demo Day provides an opportunity for Secure Systems Group to present their work and seek valuable inputs from external visitors. This is a public event and everyone is welcome to attend.

Please register through [this link >>](#) See the event webpage for more information.

**PhD defences**


**Kiran Garimella**, M.Sc., will defend the dissertation "Polarization on Social Media" on 7 February 2018 at 13 in Aalto University School of Science, lecture hall TU2, Maarintie 8, Espoo. Opponent: Professor Dino Pedreschi, University of Pisa, Italy. Custos: Professor Aristides Gionis, Aalto University School of Science, Department of Computer Science. [More information.]

**Sanja Scepanovic**, M.Sc. (Tech) will defend the dissertation: "Data science for sociotechnical systems:from computational sociolinguistics to the smart grid" on 9 February 2018 at 13 in Aalto University School of Science, lecture hall T2, Konemiehentie 2, Espoo. Opponent: Professor Fosca Giannotti, National Research Council of Italy, Italy. Custos: Professor Aristides Gionis, Aalto University School of Science, Department of Computer Science. [More information.]


Staff wellbeing

Massage
Aalto personnel has the possibility to go for massage treatments on campus during working hours. Read more from Inside.

Break exercise on Wednesdays
Join the energizing 15 minutes ‘Carefree shoulders’-break excercises on Wednesdays at 13.30-13.45! Spring season is 3 January-30 May 2018. Location is at the 2nd floor foyer of Harald Herlin Learning Centre, Otaniemi campus.

Aerobic sticks available
The department has some aerobic sticks available in room A252. Come pick your stick and start taking care of your shoulders!

Funding calls

The spring 2018 call for Aalto seed funding is open
The total budget of the call is 250 000 €. The funding must be used until the end of February 2019. NEW CRITERIA: Please note only those applicants are eligible who haven’t received the Aalto seed funding on the last two calls (spring and autumn 2017)

Aalto seed funding is available for three different kinds of funding instruments:
A) funding for major external funding project preparation, (DL 16.2.2018)
B) funding for Aalto in-house mobility (DL 16.2.2018)

Detailed description of calls deadline, eligibility criteria, application and evaluation process is available on Inside. More information of the multidisciplinary platforms can be found on here.

Academy of Finland

Academy of Finland April Call
FIRI 2018 Infrastructure Call, DL 25.4.2018
Academy Program: Media and Society, DL 25.4.2018
Also other calls coming

H2020 - EU

H2020 - ERC

ERC Consolidator Grant, DL 15.02.2018

H2020 FET Flagships

Preparatory Actions for new FET Flagships, DL 20.2.2018
FET Flagship on Quantum Technologies, DL 20.2.2018

H2020, Future and Emerging Technologies

FET Proactive - Boosting emerging technologies, multiple calls, DL 22.3.2018.

H2020, Industrial leadership, Information and communication technologies

Multiple calls, e.g.,
ICT-29-2018: A multilingual Next Generation Internet, DL 17.4.2018
ICT-16-2018: Software Technologies, DL 17.4.2018
ICT-12-2018-2020: Big Data technologies and extreme-scale analytics, DL 17.4.2018

See more funding calls from RIS calendar and from CS wiki Annual Clock for Funding Calls.
In the media
Rainer Kujala and Christoffer Weckström, doctoral candidates at Aalto University, have calculated that the opening of the western extension of Metro and the subsequent discontinuation of bus services have added up to ten minutes to commutes from various parts of Espoo to Kamppi, Helsinki. Read more at Helsingin Uutiset, Helsinki Times and Uusi Suomi.

Datatähti (Finnish Olympiad in Informatics) is an annual programming contest for Finnish secondary school students. The contest was held on 18.1.2018 in CS building. See the video in Youtube.

Training and courses
Faculty and staff training in spring term 2018

In order to develop competences in Aalto, university offers development solutions that combine both Aalto’s strategic competence needs and individual needs and motivation. Coming objective discussion is a great opportunity to think and discuss your own career plan and competence development with your supervisor.

Staff training is one tool to develop competences. Below you find training programmes, seminars and courses scheduled for academic personnel. Staff training calendar will be updated during spring. Digitalisation is one of Aalto’s strategic development initiative and the digital skills of all our employees are essential to be successful in the future. Follow-up the training calendar to find learning solutions to enhance your digital skills. Please see Inside.

The courses are held in the language of the course name. Welcome to develop your competences with training courses!

CS-E4070 Special course in machine learning and data science

Crash course in “Learning from electronic health records”
Lecturer: Professor Panagiotis Papapetrou, University of Stockholm
Lectures: Five lectures, on March 6, 8, 12, 14 & 16, at 10:00-12:00
Location: CS building, lecture room T5 (except on March 16, which will be in T6)

Topics:
- Semantics in electronic health records (EHRs): ICD10 codes, ATC codes, healthcare registry systems
- Temporal abstractions for complex, time-evolving data sources
- Predictive modeling for EHRs: random forests, survival analysis
- Descriptive modeling for EHRs: clustering, disproportionality analysis, subgroup discovery
- Two applications areas: detecting adverse drug events, predicting heart failure

Mailing lists

Mailing list for informal events

Have you always wanted to get invitations to informal happenings organized by fellow CS staff? Or have you always wanted to invite others for a game/movie night, after-work beers, after-work sports, birthday party, random hackathon, or similar?

Look no further - we have a new mailing list, informal-cs@list.aalto.fi, for announcing informal events!

Anyone can join & send invitations. To subscribe, please go to https://list.aalto.fi/mailman/listinfo/informal-cs

See all CS mailing lists in wiki.

The following CS News will be published 2.2.2018. Deadline for materials is by 1.2.2018 in the morning. Any tips on news items are welcome!

Contact us by email communications-cs@aalto.fi or in the social media https://twitter.com/CSAalto / https://www.facebook.com/CSAalto