ALGODAN — Algorithmic Data Analysis

Finnish Centre of Excellence for Algorithmic Data Analysis (Algodan 2008-2013)

Scientific Advisory Board (SAB) Meeting

Time: 18 March 2014, 9.00 – 16:45
Place: Auditorium CK112 (morning) and Room D122 (afternoon), Department of Computer Science, Exactum, University of Helsinki

Agenda

9:00 – 9:15   Opening and introductions

9:15 – 10:20   Research themes
- Hannu Toivonen: "Data mining and computational creativity"
- Joonas Paalasmaa: "Monitoring sleep with force sensor measurement"
- Petteri Kaski: "Exact algorithms"
- Juho Rousu: "Machine learning for metabolite identification"

10:20-10:30   Break

10:30-11:35   Research themes
- Aapo Hyvärinen: "Advances in neuroinformatics"
- Aristides Gionis: "Data mining: theory and applications"
- Indrė Žliobaitė: "Regression models for data streams with missing values"
- Roman Yangarber: "Modeling inter-linguistic relationships and language evolution"

11:35-11:45   Break

11:45-12:30   Research themes
- Esko Ukkonen: "De novo sequencing and gene regulatory motifs"
- Simon Puglisi: "Scalable indexing of highly repetitive data"
- Veli Mäkinen: "Bidirectional Burrows-Wheeler transformation"

12:30 – 13:30 Lunch

13:30 – 15:00 Poster exhibition, coffee (2nd floor corridor)

15:00 – 16:00 Final view on Algodan and FDK: Impact and added value

16:00 – 16:30 Scientific Advisory Board, internal discussion

16:30 – 16:45 Summary

16:45   End of meeting

List of participants

Scientific Advisory Board
- Professor Johannes Gehrke, Cornell University, USA
- Professor Volker Tresp, Ludwig Maximilian University of Munich, Germany (also Principal Research Scientist at Siemens AG, Germany)

Academy of Finland
- Professor Kaisa Väänänen-Vainio-Mattila, Research Council for Natural Sciences and Engineering
- Science Adviser Johanna Törnroos

University of Helsinki
- Professor Marja-Liisa Riekkola, Department of Chemistry
- Senior Adviser Taina Pierrier, Research Affairs, Capacity building
- Professor Esko Ukkonen, Department of Computer Science and HIIT, Esko.Ukkonen@cs.helsinki.fi, tel. +358 9 191 51280
- Professor Aapo Hyvärinen, Department of Computer Science and HIIT
- Professor Jyrki Kivinen, Department of Computer Science
- University Lecturer Juha Kärkkäinen, Department of Computer Science
- Docent Kjell Lemström, Department of Computer Science
- Professor Veli Mäkinen, Department of Computer Science
- PhD Joonas Paalasmaa, Department of Computer Science and HIIT
- Docent Valentin Polishchuk, Department of Computer Science and HIIT
- Postdoctoral Researcher Simon Puglisi, Department of Computer Science
- Professor Hannu Toivonen, Department of Computer Science and HIIT
- Senior Researcher Roman Yangarber, Department of Computer Science
- Poster chair, Doctoral student Jukka Toivanen, Department of Computer Science and HIIT
- Web chair, Postdoctoral Researcher Janne Korhonen, Department of Computer Science and HIIT
- Researchers and Doctoral Students in the unit

Aalto University
- Associate Professor Aristides Gionis, Department of Information and Computer Science and HIIT
- Chief Research Scientist Jaakko Hollmén, Department of Information and Computer Science and HIIT
- Assistant Professor, Academy Research Fellow Petteri Kaski, Department of Information and Computer Science and HIIT
- Associate Professor Juho Rousu, Department of Information and Computer Science and HIIT
- Research Scientist Indrė Žliobaitė, Department of Information and Computer Science and HIIT
- Researchers and Doctoral Students in the unit

Secretaries and technical help
- Research Coordinator, PhD Pirjo Moen, Department of Computer Science, University of Helsinki, Pirjo.Moen@cs.helsinki.fi, tel. +358 9 191 51389 and gsm +358 40 581 4321
- Amanuensis Teija Kujala, Department of Computer Science, University of Helsinki, Teija.Kujala@cs.helsinki.fi, tel. +358 9 191 51380 and gsm +358 400 606029