Helsinki Institute for Information Technology HIIT

Facts and Figures 2014

Appendix to the Annual Report

Ella Bingham and Maria Lindqvist (eds.)

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**HELSINKI
INSTITUTE FOR
INFORMATION
TECHNOLOGY**

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A. Teaching and research visits

A.1. Courses given by HIIT researchers at participating departments

A.1.1. Spring Term 2014

- Advanced Course in Algorithms, Petteri Kaski, Aalto
- Bayes-päättely, Mikhail Shubin, UH
- Bayesian theory with applications, Jukka Corander, Alberto Pessia, UH
- Biological Sequence Analysis, Esko Ukkonen, Djamal Belazzouqui, UH
- Combinatorics, Eugen Czeizler, Aalto
- Data Mining Project, Fabio Cunial, UH
- Data Mining, Fabio Cunial, UH
- Datasta tietoon harjoitustyö, Erkki Oja, Jaakko Peltonen, Aalto
- Deterministic Distributed Algorithms, Jukka Suomela, UH
- Discrete Models and Search, Emilia Oikarinen, Aalto
- Distributed Systems Project, Jussi Kangasharju, UH
- High-Throughput Bioinformatics, Elena Czeizler, Aalto
- Human-Computer Interaction, Giulio Jacucci, Joanna Bergström-Lehtovirta, UH
- Information Visualization, Jaakko Peltonen, Aalto
- Information Retrieval, Tuukka Ruotsalo, Aalto
- Interactive Systems, Giulio Jacucci, UH
- Internet and Computing Forum, Antti Ylä-Jääski, Aalto
- Introduction to probability with Matlab, Jukka Kohonen, UH
- Johdatus tietoliikenteeseen ja multimediatekniikkaan, Antti Ylä-Jääski, Aalto
- Johdatus todennäköisyyslaskentaan, Jukka Kohonen, UH
- Kandidaatintutkielma, Petri Kontkanen, Jarkko Toivonen, Samuli Hemminki, Aalto
- Kandidaatintyö ja seminaari, Juho Rousu, Aalto
- Laskennan teorian opintopiiri, Antti Laaksonen, UH
- Location-Awareness, Petteri Nurmi, UH
- Logiikka tietotekniikassa: perusteet, Jussi Rintanen, Aalto
- Machine Learning: Advanced Probabilistic Methods, Jaakko Hollmén, Aalto
- Mobile Middleware, Sasu Tarkoma, UH
- Ohjelmointi 2, Petteri Kaski, Tommi Junttila, Aalto
- Overlay and P2P Networks, Sasu Tarkoma, UH
- PhD Student Seminar, Petri Myllymäki, UH
- Probabilistic Models, Brandon Malone, UH
- Project in Biological Sequence Analysis, Emanuele Giaquinta, UH
- Project in Probabilistic Models, Antti Honkela, UH
- Reactive Systems, Keijo Heljanko, Aalto
- Reading Group on Digital Literature, Hannu Toivonen, Petri Vaittinen, UH
- Reinforcement Learning Project, Dorota Glowacka, Joel Pyykkö, UH
- Seminar on Computational Creativity, Hannu Toivonen, UH
- Seminar on Internetworking, Antti Ylä-Jääski, Aalto
- Seminar: Reinforcement Learning and its Applications, Dorota Glowacka, UH
- Seminar: Software-defined Networking, Sasu Tarkoma, UH
- Special Assignment in Networking and Security, Antti Ylä-Jääski, Aalto
- Special Course in Computer and Information Science II, Aristides Gionis, Aalto
- Special Course in Computer and Information Science III, Jana Kludas, Aalto
- Student Project in Theoretical Computer Science, Tommi Junttila, Aalto

- Tieto- ja viestintäteknologian ja sosiaalisen vuorovai-kutuksen tutkimuksen metodologiaa, Niklas Ravaja, UH

- Tietokoneverkot, Matti Siekkinen, Aalto

- Tietoliikenneohjelmistojen erikoiskurssi, Xu Xiao, Aalto

- Tietorakenteet ja algoritmit, Patrik Floréen, UH

- Unsupervised Machine Learning Projects, Hugo Ey-herabide UH

- Unsupervised Machine Learning, Aapo Hyvärinen, UH

- Warehouse-Scale Computing, Mikko Pervilä, UH

A.1.2. Autumn Term 2014

- Advanced Course in Computational Logic, Tomi Jan-hunen, Aalto

- Algorithmic Methods of Data Mining, Aristides Gionis, Aalto

- Answer Set Programming, Martin Gebser, Aalto

- Applications and Services in Internet, Zhonghong Ou, Aalto

- Combinatorics, Sinnosuke Seki, Aalto

- Computational Genomics, Elena Czeizler, Aalto

- Computer Networks II - Advanced Features, Matti Siekkinen, Aalto

- Datasta tietoon, Jaakko Hollmén, Aalto

- Design and Analysis of Algorithms, Mikko Koivisto, Ping Xiao, UH

- Distributed Algorithms, Jukka Suomela, Aalto

- Distributed Systems, Jussi Kangasharju, UH

- High-Throughput Bioinformatics, Elena Czeizler, Aalto

- Human-Computer Interaction, Giulio Jacucci, Diego Gabral, UH

- Information-Theoretic Modeling, Teemu Roos, Jussi Määttä, UH

- Interface Technologies, Antti Jylhä, UH

- Introduction to Analytics and Data Science, Aristides Gionis, Aalto

- Johdatus ohjelmointiin yhteiskuntatieteissä, Matti Ne-limarkka, UH

- Johdatus tekoälyyn, Teemu Roos, UH

- Johdatus tietoliikenteeseen, Antti Ylä-Jääski, Aalto

- Kandidaatintyö ja seminaari, Juho Rousu, Aalto

- Kernel Methods in Machine Learning, Juho Rousu, Aalto

- Linux Fundamentals, Samu Varjonen, UH

- Machine Learning: Basic Pronciples, Ritabrata Dutta, Aalto

- Markovian modelling and Bayesian learning, Jukka Corander, Elina Numminen, Jie Xiongin UH

- Parallel and Distributed Systems, Viorel Preoteasa, Hernan Ponce de Leon, Aalto

- PhD Student Seminar, Petri Myllymäki, UH

- Project in Computational Creativity, Hannu Toivonen, UH

- Project in Information-Theoretic Modeling, UH

- Scalable Cloud Computing, Keijo Heljanko, Aalto

- Scientific Writing for MSc in Computer Science, Doro-ta Glowacka, Laura Langohr, Ashwin Rao, UH

- Seminar in Probabilistic Models for Big Data, Antti Honkela, Arto Klami, UH

- Seminar on Distance Measures, Veli Mäkinen, UH

- Seminar: Distributed Computing Frameworks for Big Data, Sasu Tarkoma, UH

- Seminar: Intelligent User Interfaces, Petteri Nurmi, UH

- Special Assignment in Networking and Security, Antti Ylä-Jääski, Aalto

- Special Course in Computer and Information Science I, Antti Ukkonen, Aalto

- Special Course in Computer and Information Science IV, Aristides Gionis, Aalto

- The Computational Foundations of Linguistic Creativ-ity, Hannu Toivonen, UH

- Tieto- ja viestintäteknologian sosiaalipsykologiaa, Niklas Ravaja, UH

- Todennäköisyyslaskenta, Jukka Kohonen, UH

A.2. Research visits of at least 1 month

Visits to HIIT:

- Bellucci, Andrea, Dr
  Universidad Carlos III de Madrid (UCM3), Spain, 3 months

- Brusilowsky, Peter, Professor
  University of Pittsburgh, USA, 2 months

- Buntine, Wray, Professor
  Monash University, Australia, 1 month

- Feuilloley, Laurent, MSc Student
  ENS Cachan, France, 3 months

- Lajante, Mathieu, Professor
  University of Rennes, France, 4 months

- Lukk, Margus, PhD
  Cancer Research UK, University of Cambridge, United Kingdom, 1 month

- Maboudi, Hadi, Doctoral Student
  Institute for Research in Fundamental Sciences, Iran, 3 months

- Mamitsuka, Hiroshi, PhD
  University of Kyoto, Japan, 2 months

- Negri, Paolo, PhD candidate
  University of Padova, Italy, 4 months

- Ordoñez Alberto, Doctoral Student
  University of A Coruña, Spain, 1 month

- Pechenizkiy, Mykola, Assistant Professor
  Eindhoven University of Technology, Netherlands, 2 months

- Riesner, Mélissa, Intern
  ENC Cachan, France, 2 months

- Schaeffer, Satu Elisa, Associate Professor
  Universidad Autónoma de Nuevo León, Mexico, 7 months

- Sigg, Stephan, Researcher
  Georg-August-University Goettingen, Germany, 4 months

- Veale, Tony, Professor
  University College Dublin (UCD), Ireland, 2 months

- Yang, Xiao (Grace), Doctoral Student
  Yale University, USA, 1 month

Visits from HIIT:

- Cho, Kyunghyun
  University of Montreal, Canada, 1 month

- Ding, Yi (Aaron)
  Columbia University, USA, 4 months

- Hyvärinen, Aapo
  ATR, Japan, 2 months

- Kuikkaniemi, Kai
  TU Berlin, Germany, 2 months

- Lagutin, Dmitrij
  Nanjing, China, 1 month

- Marttinen, Pekka
  Harvard University, USA, 5 months

- Nelimarkka, Matti
  School of Information, UC Berkeley, USA, 5 months

- Rybicki, Joel
  Max Planck Institute for Informatics, Germany, 3 months

- Salmela, Leena
  University Montpellier, France, 2 months

- Tomescu, Alexandru Ioan
  Penn State University, USA, 2 months

- Vatanen, Tommi
  Boston University, USA, 8 months

B. Funding

We first list the funding sources and the distribution of expenses of each site separately. One should note that comparison between different years or between universities is not always straightforward due to different procedures of accounting.

Kumpula's funding figures are shown in Table 1. Direct funding from University of Helsinki (UH) is a bit less than 1 MEur, of which a portion is directly transferred to Aalto University to account for common administrative duties. Kumpula's competetive funding has increased due to Tekes's strategic opening Re:Know and an EU project Mind-See, both coordinated by HIIT.

Kumpula	2011	2012	2013	2014	%
Total funding	2,649,318	3,792,231	3,879,859	4,290,970	
UH direct funding	810,000	810,000	780,000	780,000	18 %
Academy of Finland	1,301,907	1,694,815	1,806,589	1,020,354	24 %
National Technology Agency Tekes	304,225	342,377	484,742	917,338	21 %
European Union	65,272	528,457	325,067	1,107,425	26 %
Industry	0	45,770	0	16,400	0 %
Competetive univ. funding	0	0	237,397	449,269	10 %
Other (Foundations, 2011-2012 competetive univ. f.)	167,914	370,812	246,064	184	0 %

Total expenses	2,410,656	2,915,601	3,738,007	3,961,395	
Salaries	1,515,436	2,535,348	2,602,229	2,609,278	66 %
Other operational expenses	608,760	448,765	540,849	650,553	16 %
Service charge to UH (rents included)	286,460	736,328	594,928	701,564	18 %

Table 1: Kumpula funding 2011-2014.

Figure 1: Kumpula funding 2014.

UH direct
Acad. Finland
Tekes
EU
Industry
Competetive univ. funding
Other
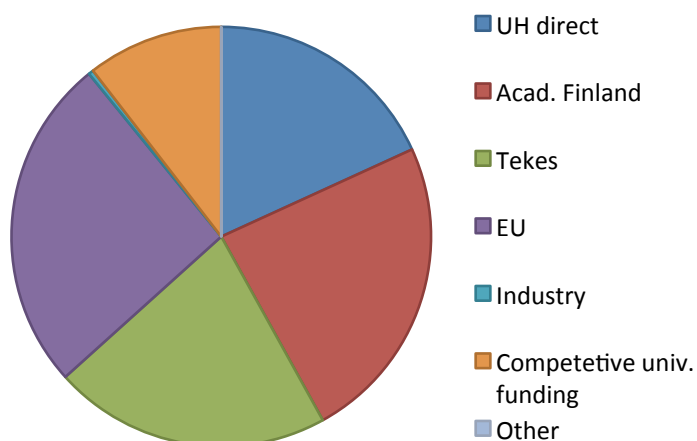
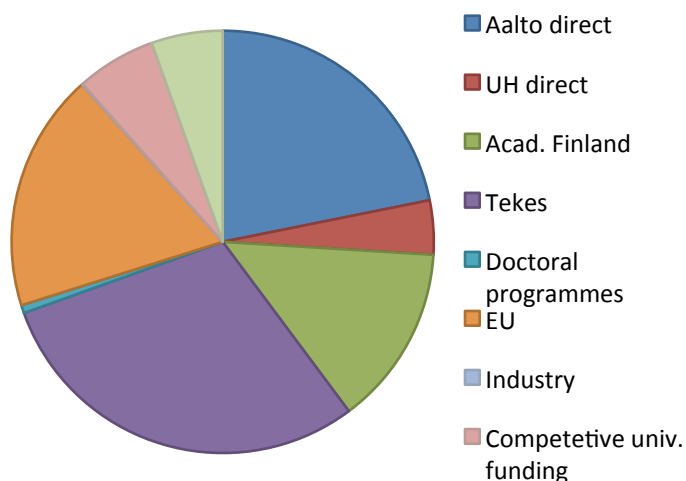Otaniemi OIH's funding figures are shown in Table 2. We list separately the funding of two doctoral programmes of the Academy of Finland which HIIT has coordinated: they do not fully contribute to HIIT's person-years or publications as most doctoral students are employed by other universities, but they constituted a largish part of HIIT's budget especially until 2012. Similarly in the list of Expenses, the large amount of "Other operational expenses" mainly consists of the expenses of these doctoral programmes in until 2012. From 2013 onwards, most of their incomes and expenses are handled by universities' central administration, and not by HIIT.

OIH	2011	2012	2013	2014	%
Total funding	6 180 389	5 976 738	4 882 452	4 065 399	
Aalto direct funding	1 000 000	1 000 000	1 000 000	887 817	22%
UH direct funding	168 200	168 200	168 200	168 200	4%
Academy of Finland	796 505	1 110 568	996 394	562 221	14%
National Technology Agency Tekes	1 266 363	1 135 342	1 191 938	1 208 372	30%
Acad.Finland doctoral programmes	1 001 904	1 084 060	133 333	25 000	1%
European Union	786 099	519 359	722 156	741 460	18%
Industry	40 173	57 566	25 206	2 275	0%
Competetive univ. funding	0	0	233 356	248 357	6%
Other (Foundations, 2011-2012 competetive univ. f.)	1 121 144	901 642	411 869	221 697	5%

Total expenses	5 869 826	6 159 939	4 718 032	3 977 803	
Salaries	2 756 648	2 999 485	2 978 904	2 557 426	64%
Other operational expenses	2 415 402	2 310 708	1 079 708	724 290	18%
Rents	430 582	396 274	265 002	322 378	8%
Service charge to Aalto	267 194	453 472	394 418	373 709	9%

Table 2: OIH funding 2011-2014.

Figure 2: OIH funding 2014.

Otaniemi T building's funding figures are shown in Table 3. T building corresponds to HIIT activities at Aalto University's ICS and CSE departments.

Otaniemi T building	2011	2012	2013	2014	%
Total funding	1 589 901	1 713 521	1 266 407	2 101 043	
Academy of Finland	849 966	858 812	771 810	1 296 749	62%
National Technology Agency Tekes	279 865	320 361	222 088	272 655	13%
European Union	97 118	72 999	81 071	62 366	3%
Industry	112 303	85 033	0	25 000	1%
Competetive univ. funding			155 050	320 837	15%
Other (Foundations, 2011-2012 competetive univ. f.)	250 649	376 316	36 388	123 437	6%

Total expenses	1 472 035	1 637 327	1 117 904	2 016 376	
Salaries	1 094 232	1 070 927	865 979	1 563 122	78%
Other operational expenses	123 716	328 914	68 514	144 817	7%
Service charge to Aalto (rents included)	254 087	237 485	183 411	308 438	15%

Table 3: Otaniemi T building funding 2011-2014.

Figure 3: Otaniemi T building funding 2014.
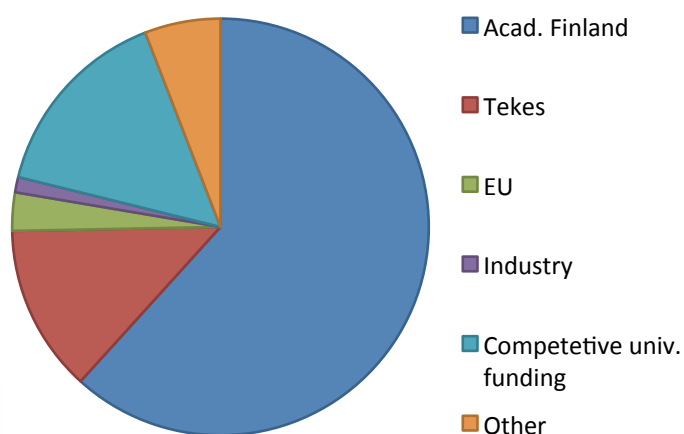
Finally we list the funding sources and the distribution of expenses for the whole HIIT in Table 4.

HIIT	2011	2012	2013	2014	%
Total funding	10 419 608	11 482 489	10 028 717	10 457 412	
Universities' direct funding	1 978 200	1 978 200	1 948 200	1 836 017	18%
Academy of Finland	2 948 378	3 664 196	3 574 793	2 879 324	28%
Doctoral programmes	1 001 904	1 084 060	133 333	25 000	0%
National Technology Agency Tekes	1 850 453	1 798 080	1 898 768	2 398 365	23%
European Union (EU)	948 489	1 120 815	1 128 294	1 911 251	18%
Industry	152 476	188 369	25 206	43 675	0%
Competetive univ. funding	0	0	625 803	1 018 463	10%
Other (Foundations, 2011-2012 competetive univ. f.)	1 539 708	1 648 770	694 321	345 318	3%

Total expenses	9 752 517	11 517 707	9 573 942	9 955 574	
Salaries	5 366 316	6 605 761	6 447 112	6 729 826	68%
Other operational expenses	3 147 878	3 088 387	1 689 071	1 519 659	15%
Service charge to UH/Aalto incl.rents	765 307	1 427 286	1 172 757	1 383 711	14%
Rents at OIH	473 016	396 274	265 002	322 378	3%

Table 4: HIIT funding 2011-2014.

Figure 4: HIIT funding 2014.
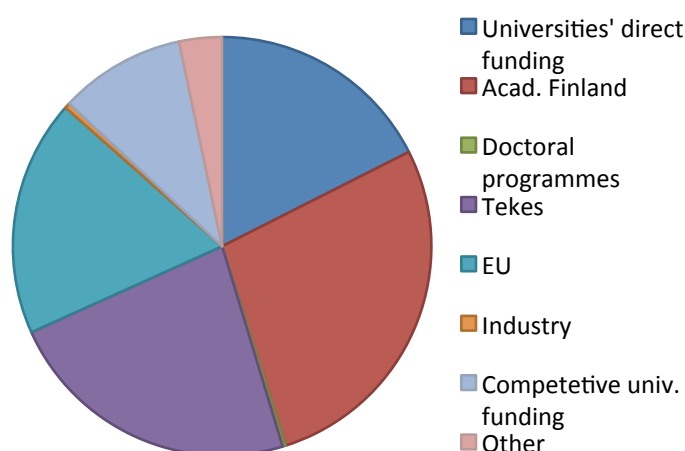
C. Personnel

In 2014 HIIT faculty and staff completed 134 person-years on HIIT funding. In addition, many persons affiliated with HIIT are funded by participating departments or personal grants either from the Academy of Finland or Foundations. The diversity of affiliations is characteristic of HIIT personnel: the most common is an affiliation with one or both of the parent universities, but there are also some who share their time between HIIT and some other organisation. Thus the total number of personnel (almost 300) is much higher than the number of person-years completed by HIIT funding.

The distribution of person-years per sites is shown in Table 5. The Otaniemi T building site comprises HIIT researchers both at Aalto University's ICS department and CSE department.

Staff (person-years)	2010	2011	2012	2013	2014
Kumpula	55	40	58	57	60
OIH	72	66	50	60	47
Otaniemi T building	48	29	36	37	27
total	175	135	144	154	134

Table 5: Number of person-years paid by HIIT 2010-2014

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Another way to visualize the personnel is to look at the distribution of personnel groups per person years, again only listing the person years completed by HIIT funding; see Table 6.

Staff (person-years)	Kumpula	Otaniemi OIH	Otaniemi T building	total
senior researchers	4	6	3	13
postdocs	10	15	8	33
doctoral students	17	10	11	38
project researchers		5	0	5
research assistants	25	6	5	36
administration	4	5	0	9
total	60	47	27	134

Table 6: Distribution of person-years by personnel groups 2014.

The number of non-Finnish staff members is large. Almost all non-Finns come from Europe, China, India and India's neighbouring countries. The pie chart includes all non-Finnish personnel, also those not counted into HIIT's person-years.

- other Europe
- Russia
- China
- India & other south Asia
- Middle East
- other Asia
- Australia & Oceania
- USA & Canada
- Central & South America
- Africa
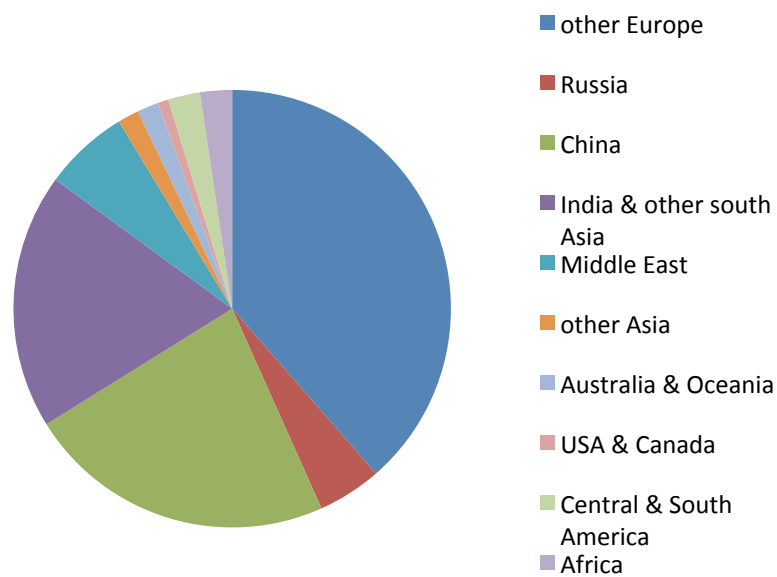
Figure 5: Nationalities of non-Finnish staff members 2014.

List of Personnel

Adhikari Prem Raj	Postdoctoral Researcher	T building
Ahmad Ayesha	Research Assistant	Kumpula
Ahmed Imtiaj	Doctoral Candidate	Kumpula
Ahonen Teppo	Doctorac Candidate	Kumpula
Alanko Jarno	Research Assistant	Kumpula
Alm Olli	Doctoral Candidate	Kumpula
Althermeler Nicole	Research Assistant	T building
Amid Ehsan	Research Assistant	T building
Ammad-Ud-Din Muhammad	Doctoral Candidate	T building

An Chao	Research Assistant	OIH, Kumpula
Andolina Salvatore	Postdoctoral Researcher	Kumpula
Athukorala Kumaripaba	Doctoral Candidate	Kumpula
Bandyopadhyay Payel	Research Assistant	Kumpula
Barral Mery de Bellegarde Oswald	Research Assistant	OIH, Kumpula
Bayhan Suzan	Postdoctoral Researcher	OIH, Kumpula
Belazzougui Djamal	Postdoctoral Researcher	Kumpula
Berg Jeremias	Research Assistant	Kumpula
Bergström-Lehtovirta Joanna	Postdoctoral Researcher	OIH
Bhadra Sahely	Postdoctoral Researcher	OIH
Bingham Ella	Research Coordinator	OIH, Kumpula
Blomstedt Paul	Postdoctoral Researcher	T building
Bomanson Jori	Doctoral Candidate	T building
Brouard Celine	Postdoctoral Researcher	T building
Brügge Kai	Doctoral Candidate	Kumpula
Bunte Kerstin	Postdoctoral Researcher	T building
Buntine Wray	HIIT Fellow	Kumpula
Bychkov Dimitrii	Doctoral Candidate	Kumpula
Chandramohanan Nair Rani Visakh	Research Assistant	T building
Chauhan Maneesh	Research Assistant	T building
Chen Yi	Postdoctoral Researcher	OIH
Chinnasamy Mohan	Research Assistant	Kumpula
Cichonska Anna	Doctoral Candidate	T building
Corander Jukka	Professor	Kumpula
Correa Rodrigues Victor	Research Assistant	Kumpula
Crespo Ribeiro Cabral Diogo	Postdoctoral Researcher	Kumpula
Cunial Fabio	Postdoctoral Researcher	Kumpula
Czeizler Elena	Senior Research Scientist	T building
Daee Pedram	Doctoral Candidate	OIH
Das Mrinal Kanti	Visiting Doctoral candidate	T building
Ding Yi	Doctoral Candidate	Kumpula
Dutta Ritabrata	Postdoctoral Researcher	OIH
Dykstra Karmen Lata	Research Assistant	T building
Döngelci Ridvan	Doctoral Candidate	T building

Eklund Elina	Research Assistant	T building
Eugster Manuel	Postdoctoral Researcher	OIH
Faghihi Berenjegani Farbod	Research Assistant	Kumpula
Falco Alessio	Doctoral Candidate	Kumpula
Filetti Marco	Postdoctoral Researcher	OIH
Flinckman Mauri	Research Assistant	T building
Floréen Patrik	Vice Director of HIIT	Kumpula, OIH
Gagie Travis	Postdoctoral Researcher	Kumpula, OIH
Gao Yuan	Research Assistant	Kumpula
Garimella Venkata Rama Kiran	Doctoral Candidate	T building
Gebremichael Lulit Woldemeskel	Research Assistant	T building
Gebser Martin	Postdoctoral Researcher	T building
Giaquinta Emanuele	Postdoctoral Researcher	Kumpula
Gillberg Leo	Doctoral Candidate	T building
Gionis Aristides	Professor	T building
Głowacka Dorota	Postdoctoral Researcher	Kumpula
Gross Oskar	Doctoral Candidate	Kumpula
Guo Haipeng	Research Assistant	Kumpula
Gurtov Andrei	Senior Research Scientist	OIH
Gutmann Urs Michael	Postdoctoral Researcher	T building
Haapoja Jesse	Research Assistant	OIH
Halcartegaray Felix	Research Assistant	OIH
Hankalahti Tuomo	Research Assistant	T building
Harjunen Ville	Doctoral Candidate	OIH
He Liye	Research Assistant	Kumpula
Heljanko Keijo	Professor	T building
Hemminki Samuli	Doctoral Candidate	Kumpula
Heurlin Af Lauri	Research Assistant	OIH
Hirvonen Juho	Doctoral Candidate	T building
Hollmen Jaakko	Teaching Researcher	T building
Holmqvist Iris	Project Secretary	OIH
Honkela Antti	Senior Research Scientist	Kumpula
Hoque Mohammad	Postdoctoral Researcher	Kumpula
Hore Sayantan	Research Assistant	Kumpula

Hsieh Yi-Ta	Doctoral Candidate	Kumpula
Hyvärinen Aapo	Professor	Kumpula
Ilievska Maja	Research Assistant	T building
Ilves Kalle	Research Assistant	Kumpula
Islam A.K.M Najmul	Postdoctoral Researcher	OIH
Jaakkola Tommi	HIIT Fellow	Kumpula
Jacucci Giulio	Professor, Programme Director	Kumpula
Janhunen Tomi	Senior University Lecturer	T building
Jeon Ahrum	Research Assistant	OIH
Jiang, Dong	Doctoral Candidate	T building
Jin Haibo	Research Assistant	Kumpula
Jitta Aditya	Doctoral Candidate	Kumpula
Junttila Tommi	University Lecturer	T building
Jylhä Antti	Postdoctoral Researcher	Kumpula
Järvi Juha	Project Researcher	OIH
Järvisalo Matti	Senior Research Scientist	Kumpula
Jääskinen Väinö	Doctoral Candidate	Kumpula
Kaipiainen Pertti	Research Assistant	Kumpula
Kajander Matti	Research Assistant	OIH
Kangas Juho-Kustaa	Doctoral Candidate	Kumpula
Kangas Kimmo	Project Researcher	OIH
Kangasharju Jussi	Professor	Kumpula
Kangasrääsiö Antti	Doctoral Candidate	T building
Kankainen Anu	Senior Research Scientist	OIH
Kantosalo Anna	Research Assistant	Kumpula
Karkulahti Ossi	Doctoral Candidate	Kumpula
Karppa Juho	Doctoral Candidate	T building
Karvonen Kristiina	Senior Research Scientist	OIH
Kaski Petteri	Professor	T building
Kaski Samuel	Professor, Director of HIIT	OIH, Kumpula
Kauppi Jukka-Pekka	Postdoctoral Researcher	Kumpula
Kempa Dominik	Doctoral Candidate	Kumpula
Kemppinen Jukka	Senior Research Scientist	OIH
Khan Suleiman Ali	Doctoral Candidate	T building

Klami Arto	Senior Research Scientist	Kumpula
Klouche Khalil	Doctoral Candidate	Kumpula
Kludas Jana	Postdoctoral Researcher	T building
Kohonen Jukka	Doctoral Candidate	Kumpula
Koivisto Mikko	Professor	Kumpula
Kontkanen Petri	Research Coordinator	Kumpula
Koponen Laura	Research Assistant	T building
Korhonen Janne	Postdoctoral Researcher	Kumpula
Korpela Mikko	Doctoral Candidate	T building
Kortesniemi Yki	Doctoral Candidate	OIH
Koskela Markus	Senior Research Scientist	Kumpula
Kostekis Orestis	Doctoral Candidate	T building
Kosunen Ilkka	Doctoral Candidate	OIH
Kotkanen Henri	Research Assistant	Kumpula
Kotkavuori Veera	Research Assistant	OIH, Kumpula
Kovanen Tony	Research Assistant	Kumpula
Kuikkaniemi Kai	Doctoral Candidate	OIH
Kuismin Tuomas	Doctoral Candidate	T building
Kuosmanen Anna	Doctoral Candidate	Kumpula
Kuuppelomäki Päivi	Planning Officer	Kumpula
Kuuranne Veli	Research Assistant	T building
Kuusisto Kiira	Research Assistant	OIH
Kähkönen Kari	Doctoral Candidate	T building
Kämäräinen Teemu	Doctoral Candidate	T building
Kärkkäinen Juha	Senior Research Scientist	Kumpula
Laaksonen Antti	Doctoral Candidate	Kumpula
Lagerspetz Eemil	Doctoral Candidate	Kumpula
Lahtinen Simo-Pekka	Research Assistant	OIH
Lampinen Airi	Postdoctoral Researcher	OIH
Langohr Laura	Doctoral Candidate	Kumpula
Lauri Juho	Project Researcher	OIH
Le Falher Geraud Louis Richard Raphael	Research Assistant	T building
Lehtinen Vilma	Postdoctoral Researcher	OIH

Lehtiniemi Tuukka	Doctoral Candidate	OIH, Kumpula
Lehtiö Anu	Research Assistant	Kumpula
Lehtola Paula	Research Assistant	Kumpula
Lehtonen Marko	Doctoral Candidate	OIH
Lei Jinmin	Research Assistant	T building
Leino Jukka	Research Assistant	Kumpula
Lempiäinen Tuomo	Research Assistant	T building
Leppä-aho Janne	Research Assistant	Kumpula
Leppäaho Eemeli	Doctoral Candidate	T building
Leppänen Jarno	Research Assistant	Kumpula
Li Chunxiang	Research Assistant	Kumpula
Lievonen Petri	Research Assistant	OIH
Lijffijt Jefrey	Postdoctoral Researcher	T building
Lin Ziyuan	Doctoral Candidate	T building
Lindqvist Maria	Research Coordinator	Kumpula
Linkola Simo	Research Assistant	Kumpula
Lintusaari Jarno	Doctoral Candidate	T building
Losoi Markus	Research Assistant	T building
Lu Yao	Research Assistant	Kumpula
Lukyanenko Andrey	Postdoctoral Researcher	T building
Malmi Eric	Doctoral Candidate	T building
Malone Brandon	Postdoctoral Researcher	Kumpula
Markus Konrad	Project Researcher	OIH
Martino Luca	Postdoctoral Researcher	Kumpula
Marttinen Pekka	University Lecturer	T building
Mathioudakis Michail	Postdoctoral Researcher	OIH
Mavroforakis Charalampos	Project Researcher	T building
Micallef Luana	Postdoctoral Researcher	OIH
Miettinen Miikka	Project Coordinator	Kumpula
Miettunen Pirkko	Department Secretary	OIH
Mineraud Julien	Postdoctoral Researcher	Kumpula
Modig Arttu	Research Assistant	Kumpula
Mononen Tommi	Postdoctoral Researcher	T building
Moskalev Artem	Research Assistant	T building

Mozeika Aleksandras	Postdoctoral Researcher	T building
Mukherjee Alapan	Research Assistant	T building
Myllymaa Kalle	Research Assistant	Kumpula
Myllymäki Petri	Professor, Programme Director	Kumpula
Myllys Petri	Research Assistant	Kumpula
Mäkinen Veli	Professor	Kumpula
Määttä Jussi	Doctoral Candidate	Kumpula
Nandan Apurva	Research Assistant	T building
Nelimarkka Matti	Doctoral Candidate	OIH
Nguyen Quan	Research Assistant	Kumpula
Niemelä Ilkka	Professor	T building
Niemimäki Sami	IT Specialist	OIH
Niinimäki Teppo	Doctoral Candidate	Kumpula
Niiranen Juha	Research Assistant	Kumpula
Nikkilä Mikko	Research Assistant	Kumpula
Numminen Elina	Doctoral Candidate	Kumpula
Nuorento Markus	IT Specialist	Kumpula
Nurmi Petteri	Senior Research Scientist	Kumpula
Nurmi-Kettunen Johanna	Doctoral Candidate	Kumpula
Nurminen Antti	Research Fellow	OIH
Nybo Kristian	Doctoral Candidate	T building
Oikarinen Emilia	Postdoctoral Researcher	T building
Ojala Jouni	Research Assistant	OIH
Orponen Pekka	Professor	T building
Ou Zhonghong	Postdoctoral Researcher	T building
Paakkola Jussi	Research Assistant	T building
Parkkinen Juuso	Doctoral Candidate	T building
Parkkinen Ville	Researcher	Kumpula
Parviainen Pekka	Postdoctoral Researcher	T building
Patil Sameer	Postdoctoral Researcher	OIH
Peltonen Ella	Doctoral Candidate	Kumpula
Peltonen Jaakko	Senior Research Scientist	T building
Pervilä Mikko	Postdoctoral Researcher	Kumpula
Pessia Alberto	Doctoral Candidate	Kumpula

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Poostchimohammadabadi Hanieh	Doctoral Candidate	OIH
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Pusa Henri	Research Assistant	Kumpula
Pyykkö Joel	Research Assistant	Kumpula
Raita Eeva	Doctoral Candidate	OIH
Rao Ashwin	Postdoctoral Researcher	Kumpula
Rao Siddharth Prakash	Research Assistant	OIH
Rasa Mikko	Project Researcher	OIH
Rasku Lari	Research Assistant	Kumpula
Ravaja Niklas	Professor	OIH
Read Jesse Michael	Postdoctoral Researcher	T building
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Reitmaa Jukka	Project Researcher	OIH
Remes Sami	Doctoral Candidate	T building
Riekkinen Markku	Research Assistant	T building
Rinta-Koski Olli-Pekka	Doctoral Candidate	T building
Rintanen Jussi	Research Fellow	T building
Rissanen Jorma	HIIT Fellow	Kumpula
Roos Teemu	Professor	Kumpula
Rousu Juho	Professor	T building
Rozenshtein Polina	Doctoral Candidate	T building
Ruotsalo Tuukka	Postdoctoral Researcher	OIH
Rybicki Joel	Doctoral Candidate	T building
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Saikko Paul	Research Assistant	Kumpula
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Serim Baris	Doctoral Candidate	Kumpula
Seth Sohan	Postdoctoral Researcher	OIH
Shen Huibin	Doctoral Candidate	T building
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Siekkinen Matti	Postdoctoral Researcher	T building
Siirtola Antti	Postdoctoral Researcher	T building
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Spape Michiel	Postdoctoral Researcher	OIH
Stegmann Roelant Antonius	Research Assistant	T building
Su Hongyu	Postdoctoral Researcher	T building
Suomela Jukka	Professor	T building
Suotsalo Kimmo	Research Assistant	Kumpula
Suvitaival Tommi	Doctoral Candidate	T building
Talvitie Topi	Research Assistant	Kumpula
Tarkoma Sasu	Professor	Kumpula
Tasoulis Sotirios	Postdoctoral Researcher	Kumpula
Tatti Nikolaj	Research Fellow	T building
Toiskallio Kalle	Senior Research Scientist	OIH
Toivanen Jukka	Doctoral Candidate	Kumpula
Toivonen Hannu	Professor	Kumpula

Toivonen Jarkko	Doctoral Candidate	Kumpula
Toivonen Juhani	Research Assistant	Kumpula
Tomescu Alexandru	Postdoctoral Researcher	Kumpula
Tonteri Pekka	IT Manager	OIH
Topa Hande	Doctoral Candidate	T building
Torvinen Juha	Project Researcher	OIH
Tynninen Päivi	Research Assistant	T building
Tyrväinen Lasse	Research Assistant	Kumpula
Ukkonen Antti	Postdoctoral Researcher	OIH
Ukkonen Esko	Professor	Kumpula
Uski Mirka	Research Assistant	OIH
Uurtio Viivi	Doctoral Candidate	T building
Valenzuela Daniel	Doctoral Candidate	Kumpula
Vanhala Antti	Research Assistant	T building
Vehkala Minna	Doctoral Candidate	Kumpula
Vepsäläinen Jouni	Doctoral Candidate	Kumpula
Vihavainen Sami	Doctoral Candidate	OIH
Virtanen Perttu	Postdoctoral Researcher	OIH
Virtanen Seppo	Doctoral Candidate	T building
von Kügelgen Maria	Research Assistant	Kumpula
Vranou Gavriela	Research Assistant	T building
Vu Ba Tien Dung	Doctoral Candidate	T building
Väre Lauri	Research Assistant	Kumpula
Wagner Paul	Doctoral Candidate	T building
Waltari Otto	Research Assistant	Kumpula
Wang Liang	Doctoral Candidate	Kumpula
Wei Lu	Postdoctoral Researcher	Kumpula
Wieringa Siert	Doctoral Candidate	T building
Wu Zhiqian	Project Researcher	OIH
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Xiao Ping	Postdoctoral Researcher	Kumpula
Xiao Yu	Postdoctoral Researcher	T building
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Ye Yina	Research Assistant	Kumpula
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Zhao Kai	Doctoral Candidate	Kumpula
Zhao Xuran	Postdoctoral Researcher	T building
Zhao Yang	Research Assistant	Kumpula
Zliobaite Indre	Postdoctoral Researcher	T building
Zou Yuan	Researcher	Kumpula

D. Publications

Publications 2007 - 2014	2007	2008	2009	2010	2011	2012	2013	2014
Articles in international scientific journals with referee practice	50	67	51	69	79	81	101	122
Articles in international edited works and conference proceedings with referee practice	94	126	126	153	134	128	137	152
Scientific monographs and edited books	6	3	6	8	9	8	5	10
Other publications	19	40	25	25	29	31	16	13
Computer programs and algorithms	1	0	1	10	8	3	2	3
Doctoral theses	9	14	13	10	7	10	18	22
Licenciate theses	0	1	1	0	0	0	1	0
Master's theses	8	76	27	33	53	55	53	45
Total	187	327	250	308	319	316	333	367

D.1. Articles in international scientific journals with referee practice

1. Virpi Ahola, Rainer Lehtonen, Panu Somervuo, Leena Salmela, Patrik Koskinen, Pasi Rastas, Niko Välimaki, Lars Paulin, Jouni Kvist, Niklas Wahlberg, Jaakko Tanskanen, Emily A. Hornett, Laura C. Ferguson, Shiqi Luo, Zijuan Cao, Maaike A. de Jong, Anne Duplouy, Olli-Pekka Smolander, Heiko Vogel, Rajiv C. McCoy, Kui Qian, Swee Chong Wong, Qin Zhang, Freed Ahmad, Jani K. Haukka, Aruj Joshi, Jarkko Salojärvi, Christopher W. Wheat, Ewald Grosse-Wilde, Daniel Hughes, Riku Katainen, Esa Pitkänen, Johannes Ylinen, Robert M. Waterhouse, Mikko Turunen, Anna Vaharautio, Sami P. Ojanen, Alan H. Schulman, Minna Taipale, Daniel Lawson, Esko Ukkonen, Veli Mäkinen, Marian R. Goldsmith, Liisa Holm, Petri Auvinen, Mikko J. Frilander, and Ilkka Hanski. The Glanville fritillary genome retains an ancient karyotype and reveals selective chromosomal fusions in Lepidoptera. Nature Communications, 5, 2014.

2. Muhammad Ammad-ud din, Elisabeth Georgii, Mehmet Gönen, Tuomo Laitinen, Olli Kallioniemi, Krister Wennerberg, Antti Poso, and Samuel Kaski. Integrative and personalized QSAR analysis in cancer by kernelized Bayesian matrix factorization. Journal of Chemical Information and Modeling, 54(8):2347-2359, 2014.

3. Gabor Aranyi, Sid Kouider, Alan Lindsay, Hielke Prins, Imtiaj Ahmed, Giulio Jacucci, Paolo Negri, Luciano Gamberini, David Pizzi, and Marc Cavazza. Subliminal cueing of selection behavior in a virtual environment. Presence-Teleoperators and Virtual Environments, 23(1):33-50, 2014.

4. Esther M. Arkin, Alon Efrat, Joseph S. B. Mitchell, Valentin Polishchuk, Srinivasan Ramasubramanian, Swaminathan Sankararaman, and Javad Taheri. Data transmission and base-station placement for optimizing the lifetime of wireless sensor networks. Ad Hoc Networks, 12:201-218, 2014.

5. Mukesh Bansal, Jichen Yang, Charles Karan, Michael P. Menden, James C. Costello, Hao Tang, Guanghua Xiao, Yajuan Li, Jeffrey Allen, Rui Zhong, Beibei Chen, Minsoo Kim, Tao Wang, Laura M. Heiser, Ronald Realubit, Michela Mattioli, Mariano J. Alvarez, Yao Shen, Daniel Gallahan, Dinah Singer, Julio Saez-Rodriguez, Yang Xie, Gustavo Stolovitzky, and Andrea Califano. A community computational challenge to predict the activity of pairs of compounds. Nature Biotechnology, 32(12):1213-1222, 2014.

6. Jeremy Barbay, Francisco Claude, Travis Gagie, Gonzalo Navarro, and Yakov Nekrich. Efficient fully-compressed sequence representations. Algorithmica, 69(1):232-268, 2014.

7. Djamal Belazzougui. Improved space-time tradeoffs for approximate full-text indexing with one edit error. Algorithmica, 2014.

8. Ella Bingham and Heikki Mannila. Towards computational techniques for identifying candidate chronofauna. Annales Zoologici Fennici, 51(1-2):43-49, 2014.

9. Francesco Bonchi, Aristides Gionis, and Tamir Tassa. Identity obfuscation in graphs through the information theoretic lens. Information Sciences, 275:232-256, 2014.

10. R. P. Jagadeesh Chandra Bose, Wil M. P. van der Aalst, Indre Zliobaite, and Mykola Pechenizkiy. Dealing with concept drifts in process mining. IEEE Transactions on Neural Networks and Learning Systems, 25(1):154-171, 2014.

11. Howard Bowman, Marco Filetti, Abdulmajeed Alsufyani, Dirk Janssen, and Li Su. Countering countermeasures: Detecting identity lies by detecting conscious breakthrough. PLoS One, 9(3):90595, 2014.

12. Ibrahhim Chegrane and Djamal Belazzougui. Simple, compact and robust approximate string dictionary. Journal of Discrete Algorithms, 28 (StringMasters 2012 and 2013 Special Issue) (Volume 1):49-60, 2014.

13. Claire Chewapreecha, Simon R. Harris, Nicholas J. Croucher, Claudia Turner, Pekka Marttinen, Lu Cheng, Alberto Pessia, David M. Aanensen, Alison E. Mather, Andrew J. Page, Susannah J. Salter, David Harris, Francois Nosten, David Goldblatt, Jukka Corander, Julian Parkhill, Paul Turner, and Stephen D. Bentley. Dense genomic sampling identifies highways of pneumococcal recombination. Nature Genetics, 46(3):305-309, 2014.

14. Claire Chewapreecha, Pekka Marttinen, Nicholas J. Croucher, Susannah J. Salter, Simon R. Harris, Alison E. Mather, William P. Hanage, David Goldblatt, Francois H. Nosten, Claudia Turner, Paul Turner, Stephen D. Bentley, and Julian Parkhill. Comprehensive identification of single nucleotide polymorphisms associated with betalactam resistance within pneumococcal mosaic genes. PLoS Genetics, 10(8):1004547, 2014.

15. James C. Costello, Laura M. Heiser, Elisabeth Georgii, Mehmet Gönen, Michael P. Menden, Nicholas J. Wang, Mukesh Bansal, Muhammad Ammad-ud din, Petteri Hintsanen, Suleiman A Khan, John-Patrick Mpindi, Olli Kallioniemi, Antti Honkela, Tero Aittokallio, Krister Wennerberg, NCI DREAM Community, James J. Collins, Dan Gallahan, Dinah Singer, Julio Saez-Rodriguez, Samuel Kaski, Joe W. Gray, and Gustavo Stolovitzky. A community effort to assess and improve drug sensitivity prediction algorithms. Nature Biotechnology, 32:1202-1212, 2014.

16. Ben Cowley, Martino Fantato, Charlene Jennett, Martin Ruskov, and Niklas Ravaja. Learning when serious: Psychophysiological evaluation of a technology-enhanced learning game. Educational Technology & Society, 17(1):3-16, 2014.

17. Ben Cowley and Niklas Ravaja. Learning in balance: Using oscillatory EEG biomarkers of attention, motivation, and vigilance to interpret game-based learning. Cogent Education, 1(1), 2014.

18. Benjamin Cowley, Ilkka Kosunen, Petri Lankoski, Matias Kivikangas, Simo Järvelä, Inger Ekman, Jaakko Kemppainen, and Niklas Ravaja. Experience assessment and design in the analysis of gameplay. Simulation & Gaming, 45(1):41-69, 2014.

19. Boris Cule, Nikolaj Tatti, and Bart Goethals. Marbles: Mining association rules buried in long event sequences. Statistical Analysis and Data Mining, 7(2):93-110, 2014.

20. Aaron Yi Ding, Jon Crowcroft, Sasu Tarkoma, and Hannu Flinck. Software defined networking for security enhancement in wireless mobile networks. Computer Networks, 66:94-101, 2014.

21. Aaron Yi Ding, Jouni Korhonen, Teemu Savolainen, Markku Kojo, Jörg Ott, Sasu Tarkoma, and Jon Crowcroft. Bridging the gap between internet standardization and networking research. Computer Communications Review, 44(1):56-62, 2014.

22. Liviu P. Dinu, Radu Tudor Ionescu, and Alexandru I. Tomescu. A rank-based sequence aligner with applications in phylogenetic analysis. PLoS One, 9(8), 2014.

23. Wolfgang Dvorak, Matti Järvisalo, Johannes Peter Wallner, and Stefan Woltran. Complexity-sensitive decision procedures for abstract argumentation. Artificial Intelligence, 206:53-78, 2014.

24. Salim Eryigit, Gurkan Gur, Suzan Bayhan, and Tuna Tugcu. Energy efficiency is a subtle concept: Fundamental trade-offs for cognitive radio networks. IEEE Communications Magazine, 52(7):30-36, 2014.

25. Zoltn Faigl, Jani Pellikka, Lszl Bokor, and Andrei Gurtov. Performance evaluation of current and emerging authentication schemes for future 3GPP network architectures. Computer Networks, 60(February): 74, 2014.

26. Ali Faisal, Jaakko Peltonen, Elisabeth Georgii, Johan Rung, and Samuel Kaski. Toward computational cumulative biology by combining models of biological datasets. PLoS One, 9(11), 2014.

27. Arash Farzan, Travis Gagie, and Gonzalo Navarro. Entropy-bounded representation of point grids. Computational Geometry, 47(1):1-14, 2014.

28. Hector Ferrada, Travis Gagie, Tommi Hirvola, and Simon J. Puglisi. Hybrid indexes for repetitive datasets. Philosophical transactions - Royal Society. Mathematical, Physical and engineering sciences, 372(2016), 2014.

29. Paula Forbes, Silvia Gabrielli, Rosa Maimone, Judith Masthff, Simon Wells, and Antti Jylhä. Towards using segmentation-based techniques to personalize mobility behavior interventions. ICST Transactions on Ambient Systems, 14(4), 2014.

30. Nanna Fyhrquist, Lasse Ruokolainen, Alina Suomalainen, Sari Lehtimaki, Ville Veckman, Johanna Vendelin, Piia Karisola, Maili Lehto, Terhi Savinko, Hanna Jarva, Timo U. Kosunen, Jukka Corander, Petri Auvinen, Lars Paulin, Leena von Hertzen, Tiina Laatikainen, Mika Mäkelä, Tari Haahtela, Dario Greco, Ilkka Hanski, and Harri Alenius. Acinetobacter species in the skin microbiota protect against allergic sensitization and inflammation. Journal of Allergy and Clinical Immunology, 134(6):1301, 2014.

31. Silvia Gabrielli, Paula Forbes, Antti Jylhä, Simon Wells, Miika Sirén, Samuli Hemminki, Petteri Nurmi, Rosa Maimone, Judith Masthoff, and Giulio Jacucci. Design challenges in motivating change for sustainable urban mobility. Computers in Human Behavior, 41:416-423, 2014.

32. Esther Galbrun, Aristides Gionis, and Nikolaj Tatti. Overlapping community detection in labeled graphs. Data Mining and Knowledge Discovery, 28(5-6):1586-1610, 2014.

33. Esther Galbrun and Angelika Kimmig. Finding relational redescriptions. Machine Learning, 96(3):225-248, 2014.

34. Joao Gama, Indre Zliobaite, Albert Bifet, Mykol Pechenizkiy, and Abdelhamid Bouchachia. A survey on concept drift adaptation. ACM Computing Surveys, 46(4):44, 2014.

35. R. Stuart Geiger and Airi Lampinen. Old against new, or a coming of age? broadcasting in an era of electronic media. Journal of Broadcasting and Electronic Media, 58(3), 2014.

36. Emanuele Giaquinta , Kimmo Fredriksson, Szymon Grabowski, Alexandru I. Tomescu, and Esko Ukkonen. Motif matching using gapped patterns. Theoretical Computer Science, 548:1-13, 2014.

37. Mehmet Gönen and Samuel Kaski. Kernelized Bayesian matrix factorization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 36(10):2047-2060, 2014.

38. Mika Göös, Tuomo Lempiäinen, Eugen Czeizler, and Pekka Orponen. Search methods for tile sets in patterned DNA self-assembly. Journal of Computer and System Sciences, 80(1):297-319, 2014.

39. Mika Göös and Jukka Suomela. No sublogarithmic-time approximation scheme for bipartite vertex cover. Distributed Computing, 27(6):435-443, 2014.

40. Michael U. Gutmann, Valero Laparra, Aapo Hyvärinen, and Jesus Malo. Spatio-chromatic adaptation via higher-order canonical correlation analysis of natural images. PLoS One, 9(2), 2014.

41. Jinyoung Han, Taejoong Chung, Seungbae Kim, Hyun chul Kim, Jussi Kangasharju, Ted Taekyoung Kwon, and Yanghee Choi. Strategic bundling for content availability and fast distribution in BitTorrent. Computer Communications, 43:64-73, 2014.

42. Tilo Hartmann, Werner Wirth, Holger Schramm, Christoph Klimmt, Peter Vorderer, Andre Gyspers, Saskia Böcking, Niklas Ravaja, Jari Laarni, Timo Saari, Feliz Gouveia, and Ana Sacau. The spatial presence experience scale (spes): A short self-report measure for diverse media settings. Journal of Media Psychology, 2014.

43. Mohammad Asharful Hoque, Matti Siekkinen, Jukka K. Nurminen, Sasu Tarkoma, and Mika Aalto. Saving energy in mobile devices for on-demand multimedia streaming: A cross-layer approach. ACM Transactions on Multimedia Computing Communications and Applications, 10(3), 2014.

44. Liisa Ilomäki, Sami Paavola, Minna Lakkala, and Anna Kantosalo. Digital competence - an emergent boundary concept for policy and educational research. Education and Information Technologies, 2014.

45. Simo Järvelä, Inger Ekman, Matias Kivikangas, and Niklas Ravaja. A practical guide to using digital games as an experiment stimulus. Transactions of the Digital Games Research Association, 1(2):85-115, 2014.

46. Simo Järvelä, Matias Kivikangas, Jari Kätsyri, and Niklas Ravaja. Physiological linkage of dyadic gaming experience. Simulation & Gaming, 45(1):24-40, 2014.

47. Melih Kandemir, Akos Vetek, Mehmet Gönen, Arto Klami, and Samuel Kaski. Multi-task and multi-view learning of user state. Neurocomputing, 139(2):97-106, 2014.

48. Nadav Kashtan, Sara E. Roggensack, Sébastien Rodrigue, Jessie W. Thompson, Steven J. Biller, Allison Coe, Huiming Ding, Pekka Marttinen, Rex R. Malmstrom, Roman Stocker, and et al. Single-cell genomics reveals hundreds of coexisting subpopulations in wild prochlorococcus. Science, 344(6182):416{420, 2014.

49. Petteri Kaski, André de Souza Medeiros, Patric R.J. Östergrd, and Ian M. Wanless. Switching in one-factorisations of complete graphs. The Electronic Journal of Combinatorics, 21(1):24, 2014.

50. Petteri Kaski, Mikko Koivisto, Janne H. Korhonen, and Igor S. Sergeev. Fast monotone summation over disjoint sets. Information Processing Letters, 114(5):264-267, 2014.

51. Suleiman A. Khan, Seppo Virtanen, Olli P. Kallioniemi, Krister Wennerberg, Antti Poso, and Samuel Kaski. Identification of structural features in chemicals associated with cancer drug response: A systematic data-driven analysis. Bioinformatics, 30(17):504, 2014.

52. Matias Kivikangas, Jari Kätsyri, Simo Järvelä, and Niklas Ravaja. Gender differences in emotional responses to cooperative and competitive game play. PLoS One, 9(7), 2014.

53. Jussi Korpela, Kai Puolamäki, and Aristides Gionis. Confidence bands for time series data. Data Mining and Knowledge Discovery, 28(5-6):1530-1553, 2014.

54. Dmitry Korzun and Andrei Gurtov. Hierarchical architectures in structured peer-to-peer overlay networks. Peer-to-Peer Networking and Applications, 7(4):359-395, 2014.

55. Orestis Kostakis. Classy: fast clustering streams of call-graphs. Data Mining and Knowledge Discovery, 28(5-6):1554-1585, 2014.

56. Dmitry Krasnoshchekov and Valentin Polishchuk. Order-k alpha-hulls and alpha-shapes. Information Processing Letters, 114(1-2):76-83, 2014.

57. Georg Krempl, Indre Zliobaite, Dariusz Brzezinski, Eyke Hullermeier, Mark Last, Vincent Lemaire, Tino Noack, Ammar Shaker, Sonja Sievi, Myra Spiliopoulou, and Jerzy Stefanowski. Open challenges for data stream mining research. SIGKDD Explorations, 16(1):1-10, 2014.

58. Pardeep Kumar, Andrei Gurtov, Jari Iinatti, and Sang-Gon Lee. Delegation-based robust authentication model for wireless roaming using portable communication devices. IEEE Transactions on Consumer Electronics, 60(4), 2014.

59. Pardeep Kumar, Mika Ylianttila, Andrei Gurtov, Sang-Gon Lee, and Hoon-Jae Lee. An efficient and adaptive mutual authentication framework for heterogeneous wireless sensor network-based applications. MDPI Sensors, 14(2):2732-2755, 2014.

60. Dmitriy Kuptsov, Boris Nechaev, Andrey Lukyanenko, and Andrei Gurtov. How penalty leads to improvement: A measurement study of wireless backoff in IEEE 802.11 networks. Computer Networks, 75(comnet. 2014.09.008), 2014.

61. Ilmari Kurki, Jussi Saarinen, and Aapo Hyvarinen. Investigating shape perception by classification images. Journal of Vision, 14(12), 2014.

62. Airi Lampinen, Vilma Lehtinen, and Coye Cheshire. Media Choice and Identity Work: A Case Study of Information Communication Technology Use in a Peer Community. Communication and Information Technologies Annual (Studies in Media and Communications, Volume 8), pages 103-130. Emerald Group Publishing Limited, United Kingdom, 2014.

63. Remi Lemoy, Alexander Mozeika, and Shinnosuke Seki. Transfer matrix analysis of one-dimensional majority cellular automata with thermal noise. Journal of Physics A-Mathematical and Theoretical, 47(10):105001/1-11, 2014.

64. Ming Li, Andrey Lukyanenko, Sasu Tarkoma, Yong Cui, and Antti Ylä-Jääski. Tolerating path heterogeneity in multipath TCP with bounded receive buffers. Computer Networks, 64:14, 2014.

65. Jefrey Lijffijt, Panagiotis Papapetrou, and Kai Puolamäki. A statistical significance testing approach to mining the most informative set of patterns. Data Mining and Knowledge Discovery, 28(1):238-263, 2014.

66. Song Liu, John A. Quinn, Michael U. Gutmann, Taiji Suzuki and Masashi Sugiyama. Direct Learning of Sparse Changes in Markov Networks by Density Ratio Estimation. Neural Computation, 26: 1169-1197, 2014.

67. Veli Mäkinen and Daniel Valenzuela. Recombination-aware alignment of diploid individuals. BMC Genomics, 15(Suppl 6):S15, 2014.

68. Maija Marttinen, Anne-Maria Pajari, Essi Päivärinta, Markus Storvik, Pekka Marttinen, Tanja Nurmi, Mikael Niku, Vieno Piironen, and Marja Mutanen. Plant sterol feeding induces tumor formation and alters sterol metabolism in the intestine of apc(min) mice. Nutrition and Cancer - an International Journal, 66(2):259-269, 2014.

69. Pekka Marttinen, Matti Pirinen, Antti-Pekka Sarin, Jussi Gillberg, Johannes Kettunen, Ida Surakka, Antti J. Kangas, Pasi Soininen, Paul O'Reilly, Marika Kaakinen, Mika Kähönen, Terho Lehtimäki, Mika Ala-Korpela, Olli T. Raitakari, Veikko Salomaa, Marjo-Riitta Järvelin, Samuli Ripatti, and Samuel Kaski. Assessing multivariate gene-metabolome associations with rare variants using Bayesian reduced rank regression. Bioinformatics, 30(14):2026-2034, 2014.

70. Martin Milanic, Romeo Rizzi, and Alexandru I. Tomescu. Set graphs. II. Complexity of set graph recognition and similar problems. Theoretical Computer Science, 547:70-81, 2014.

71. Martin Milanic and Alexandru I. Tomescu. Set graphs. IV. Further connections with claw-freeness. Discrete Applied Mathematics, 174:113-121, 2014.

72. Sari Mullola, Mirka Hintsanen, Markus Jokela, Jari Lipsanen, Saija Alatupa, Niklas Ravaja, and Liisa Keltikangas-Järvinen. Associations between teacher-rated versus self-rated student temperament and school achievement. Scandinavian Journal of Educational Research, 58(2):147-172, 2014.

73. Mikko Nikkilä, Valentin Polishchuk, and Dmitry Krasnoshchekov. Robust estimation of seismic coda shape. Geophysical Journal International, 197(1):557-565, 2014.

74. Suvi Elina Numminen, Claire Chewapreecha, Jukka Siren, Claudia Turner, Paul Turner, Stephen Bentley, and Jukka Corander. Twophase importance sampling for inference about transmission trees. Proceedings of the Royal Society B. Biological Sciences, 2014.

75. Petteri Nurmi, Antti Salovaara, Andreas Forsblom, Fabian Bohnert, and Patrik Floréen. PromotionRank: Ranking and recommending grocery product promotions using personal shopping lists. ACM Transactions on Interactive Intelligent Systems, 4(1):23 p., 2014.

76. Zhonghong Ou, Jiang Dong, Shichao Dong, Jun Wu, Antti Ylä-jääski, Pan Hui, RenWang, and Alexander W. Min. Utilize signal traces from others? A crowdsourcing perspective of energy saving in cellular data communication. IEEE Transactions on Mobile Computing, 14(1):194-207, 2014.

77. Zhonghong Ou, Hao Zhuang, Andrey Lukyanenko, Jukka K. Nurminen, Pan Hui, Vladimir Mazalov, and Antti Ylä-jääski. Is the same instance type created equal? Exploiting heterogeneity of public clouds. IEEE Transactions on Cloud Computing, 1(2):201-214, 2014.

78. Antti Oulasvirta, Tiia Suomalainen, Juho Hamari, Airi Lampinen, and Kristiina Karvonen. Transparency of intentions decreases privacy concerns in ubiquitous surveillance. Cyberpsychology, Behavior, and Social Networking, 17(10):633-638, 2014.

79. Joonas Paalasmaa, Hannu Toivonen, and Markku Partinen. Adaptive heartbeat modeling for beat-to-beat heart rate measurement in ballistocardiograms. IEEE Journal of Biomedical and Health Informatics, 2014.

80. Joni Pajarinen, Ari Hottinen, and Jaakko Peltonen. Optimizing spatial and temporal reuse in wireless networks by decentralized partially observable Markov decision processes. IEEE Transactions on Mobile Computing, 13(4):866-879, 2014.

81. Juuso A. Parkkinen and Samuel Kaski. Probabilistic drug connectivity mapping. BMC Bioinformatics, 15(113), 2014.

82. Esa Pitkänen, Paula Jouhten, Jian Hou, Muhammad Syed Fahad, Peter Blomberg, Jana Kludas, Merja Oja, Liisa Holm, Merja Penttilä, Juho Rousu, and et al. Comparative genome-scale reconstruction of gapless metabolic networks for present and ancestral species. PLOS Computational Biology, 10(2):1003465, 2014.

83. Pawani Porambage, Corinna Schmitt, Pardeep Kumar, Andrei Gurtov and Mika Ylianttila. PAuthKey: A Pervasive Authentication Protocol and Key Establishment Scheme for Wireless Sensor Networks in Distributed IoT Applications. International Journal of Distributed Sensor Networks, 2014

84. Jouni Puuronen and Aapo Hyvärinen. A Bayesian inverse solution using independent component analysis. Neural Networks, 50:47-59, 2014.

85. Pavan Ramkumar, Lauri Parkkonen, and Aapo Hyvärinen. Grouplevel spatial independent component analysis of Fourier envelopes of resting-state MEG data. NeuroImage, 86:480-491, 2014.

86. Niklas Ravaja, Pekka Aula, Alessio Falco, Salla-Maaria Laaksonen, Mikko Salminen, and Antti Ainamo. Online news and corporate reputation: A neurophysiological investigation. Journal of Media Psychology, 2014.

87. Niklas Ravaja and Jari Kätsyri. Suboptimal facial expression primes in textual news media: Evidence for affective congruency effects on emotional responses and cognitive evaluations. Computers in Human Behavior, 11(40), 2014.

88. Sandra Reuter, Thomas R. Connor, Lars Barquist, Danielle Walker, Theresa Feltwell, Simon R. Harris, Maria Fookes, Miquette E. Hall, Nicola K. Petty, Thilo M. Fuchs, Jukka Corander, Muriel Dufour, Tamara Ringwood, Cyril Savin, Christiane Bouchier, Liliane Martin, Minna Miettinen, Mikhail Shubin, Julia M. Riehm, Riikka Laukkanen- Ninios, Leila M. Sihvonen, Anja Siitonen, Mikael Skurnik, Juliana Pfrimer Falcao, Hiroshi Fukushima, Holger C. Scholz, Michael B. Prentice, Brendan W. Wren, Julian Parkhill, Elisabeth Carniel, Mark Achtman, Alan McNally, and Nicholas R. Thomson. Parallel independent evolution of pathogenicity within the genus Yersinia. Proceedings of the National Academy of Sciences of the United States of America, 111(18):6768-6773, 2014.

89. Romeo Rizzi, Alexandru Ioan Tomescu, and Veli Mäkinen. On the complexity of minimum path cover with sub-path constraints for multiassembly. BMC Bioinformatics, 15(S9):S5, 2014.

90. Tuukka Ruotsalo, Giulio Jacucci, Petri Myllymäki, and Samuel Kaski. Interactive intent modeling: information discovery beyond search. Communications of the ACM, vol. 58, No. 1, pp. 86-92, 2014.

91. Leena Salmela and Eric Rivals. LoRDEC: accurate and efficient long read error correction. Bioinformatics, 30(24):3506{3514, 2014.

92. Manuel Martin Salvador, Bogdan Gabrys, and Indre Zliobaite. Online detection of shutdown periods in chemical plants: A case study. Procedia Computer Science, 35:580-588, 2014.

93. Hiroaki Sasaki, Aapo Hyvärinen, and M. Sugiyama. Clustering via mode seeking by direct estimation of the gradient of a log-density. In Lecture Notes in Artificial Intelligence, pages 19-34, 2014.

94. Andre Schumacher, Luca Pireddu, Matti Niemenmaa, Aleksi Kallio, Eija Korpelainen, Gianluigi Zanetti, and Keijo Heljanko. SeqPig: Simple and scalable scripting for large sequencing data sets in Hadoop. Bioinformatics, 30(1):119-120, 2014.

95. Deborah Serrien, Michiel Sovijärvi-Spapé, and Gita Rana. Developmental changes in motor control: Insights from bimanual coordination. Developmental Psychology, 50(1):316-323, 2014.

96. Sohan Seth, Niko Välimäki, Samuel Kaski, and Antti Honkela. Exploration and retrieval of whole-metagenome sequencing samples. Bioinformatics, 30(17):2471-2479, 2014.

97. Samuel K. Sheppard, Lu Cheng, Guillaume Meric, Caroline P. A. De Haan, Ann-Katrin Llarena, Pekka Marttinen, Ana Vidal, Anne Ridley, Felicity Clifton-Hadley, Thomas R. Connor, Norval J. C. Strachan, Ken Forbes, Frances M. Colles, Keith A. Jolley, Stephen D. Bentley, Martin C. J. Maiden, Marja-Liisa Hänninen, Julian Parkhill, William P. Hanage, and Jukka Corander. Cryptic ecology among host generalist Campylobacter jejuni in domestic animals. Molecular Ecology, 23(10):2442-2451, 2014.

98. Jouni Sirén, Niko Välimäki, and Veli Mäkinen. Indexing graphs for path queries with applications in genome research. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 11(2):375-388, 2014.

99. Otto Solin, Lauri Haikala, and Esko Ukkonen. Mining the VVV: star formation and embedded clusters. Astronomy and Astrophysics, 562, 2014.

100. Michiel Spapé, Eve Hoggan, Giulio Jacucci, and Niklas Ravaja. The meaning of the virtual midas touch: An ERP study in economic decision making. Psychophysiology, 2014.

101. Michiel Spapé and Bernhard Hommel. Sequential modulations of the Simon effect depend on episodic retrieval. Frontiers in Psychology, 5:855, 2014.

102. Tommi Suvitaival, Juuso Parkkinen, Seppo Virtanen, and Samuel Kaski. Cross-organism toxicogenomics with group factor analysis. Systems Biomedicine, 2:29291, 2014.

103. Tommi Suvitaival, Simon Rogers, and Samuel Kaski. Stronger findings for metabolomics through Bayesian modeling of multiple peaks and compound correlations. Bioinformatics, 30(17):467, 2014.

104. Tommi Suvitaival, Simon Rogers, and Samuel Kaski. Stronger findings from mass spectral data through multi-peak modeling. BMC Bioinformatics, 15:208, 2014.

105. Tatsuya Tashiro, Shohei Shimizu, Aapo Hyvärinen, and Takashi Washio. ParceLiNGAM: A causal ordering method robust against latent confounders. Neural Computation, 26(1):57-83, 2014.

106. Sotirios Tasoulis, Ilias Maglogiannis, Spyros Georgakopoulos, and Vasilis Plagianakos. A software tool for the automatic detection and quantification of fibrotic tissues in microscopy images. Information Sciences, 2014.

107. Nikolaj Tatti. Discovering bands from graphs. Data Mining and Knowledge Discovery, 28(5-6):1429-1454, 2014.

108. Nikolaj Tatti. Discovering episodes with compact minimal windows. Data Mining and Knowledge Discovery, 28(4):1046-1077, 2014.

109. Nikolaj Tatti, Fabian Moerchen, and Toon Calders. Finding robust itemsets under subsampling. ACM Transactions on Database Systems, 39(3):27, Article 20., 2014.

110. Muhammad Amnnad-ud-din, Elisabeth Georgii, Mehmet Gönen, Tuomo Laitinen, Olli Kallioniemi, Krister Wennerberg, Antti Poso, and Samuel Kaski. Integrative and personalized QSAR analysis in cancer by kernelized Bayesian matrix factorization. Journal of Chemical Information and Modeling, 54(8):2347-2359, 2014.

111. Suvi Uski and Airi Lampinen. Social norms and self-presentation on social network sites: profile work in action. New Media and Society, 2014.

112. Sami Vihavainen, Airi Lampinen, Antti Oulasvirta, Suvi Silfverberg, and Asko Lehmuskallio. The clash between privacy and automation in social media. IEEE Pervasive Computing, 13(1):56-63, 2014.

113. Liisa Voutilainen, Pentti Henttonen, Mikko Kahri, Maari Kivioja, Niklas Ravaja, Mikko Sams, and Anssi Peräkylä. Affective stance, ambivalence, and psychophysiological responses during conversational storytelling. Journal of Pragmatics, 68:1-24, 2014.

114. Ciira wa Maina, Antti Honkela, Filomena Matarese, Korbinian Grote, Hendrik G. Stunnenberg, George Reid, Neil D. Lawrence, and Magnus Rattray. Inference of RNA polymerase II transcription dynamics from chromatin immunoprecipitation time course data. PLoS Computational Biology, 10(5), 2014.

115. Liang Wang, Suzan Bayhan, and Jussi Kangasharju. Effects of cooperation policy and network topology on performance of in-network caching. IEEE Communications Letters, 18(4):680-683, 2014.

116. Lu Wei, Olav Tirkkonen, and Ying-Chang Liang. Multi-source signal detection with arbitrary noise covariance. IEEE Transactions on Signal Processing, 62(22):5907-5918, 2014.

117. Simon Wells, Henri Antero Kotkanen, Michael Schlafli, Silvia Gabrielli, Judith Masthoff, Antti Jylhä, and Paula Forbes. Towards an applied gamification model for tracking, managing, and encouraging sustainable travel behaviours. ICST Transactions on Ambient Systems, 14(4), 2014.

118. Victoria J. Williamson, Lassi A. Liikkanen, Kelly Jakubowski, and Lauren Stewart. Sticky tunes: How do people react to involuntary musical imagery? Plos One, 9(1):00000e86170/1-9, 2014.

119. Hao Wu, Jilles Vreeken, Nikolaj Tatti, and Naren Ramakrishnan. Uncovering the plot: Detecting surprising coalitions of entities in multirelational schemas. Data Mining and Knowledge Discovery, 28(5-6):1398-1428, 2014.

120. Yu Xiao, Yong Cui, Petri Savolainen, Matti Siekkinen, An Wang, Liu Yang, Antti Ylä-Jääski, and Sasu Tarkoma. Modeling energy consumption of data transmission over Wi-Fi. IEEE transactions on mobile computing., 13(8):1760-1773, 2014.

121. Indre Zliobaite. Controlled permutations for testing adaptive learning models. Knowledge Information Systems, 39(3):565-578, 2014.

122. Indre Zliobaite, Jaakko Hollmén, and Heikki Junninen. Regression models tolerant to massively missing data: a case study in solar radiation nowcasting. Atmospheric Measurement Techniques Discussions, 7(7):7137-7174, 2014.

D. 2. Articles in international edited works and conference proceedings with referee practice

1. Prem Raj Adhikari, Anze Vavpetic, Jan Kralj, Nada Lavrac, and Jaakko Hollmén. Explaining mixture models through semantic pattern mining and banded matrix visualization. In S. Dczeroski, P. Panov, D. Kocev, and L. Todorovski, editors, Proceedings of Seventeenth International Conference on Discovery Science (DS 2014), pages 86-97.Springer Berlin Heidelberg, October 2014.

2. Bilal Alsallakh, Luana Micallef, Wolfgang Aigner, Helwig Hauser, Silvia Miksch, and Peter Rodgers. Visualizing sets and set-typed data: State-of-the-art and future challenges. In Proceedings, 16th Eurographics Conference on Visualization, 2014.

3. Salvatore Andolina and Jodi Forlizzi. A multi-touch interface for multi-robot path planning and control. Symbiotic Interaction, Lecture Notes in Computer Science, Vol. 8820, pages 127-132. Springer, 2014.

4. Salvatore Andolina and Jodi Forlizzi. The design of interfaces for multi-robot path planning and control. In Advanced Robotics and its Social Impacts (ARSO), 2014 IEEE Workshop, pages 7-13, 2014.

5. Kumaripaba Athukorala, Eemil Lagerspetz, Maria von Kugelgen, Antti Jylhä, Adam J. Oliner, Sasu Tarkoma, and Giulio Jacucci. How Carat affects user behavior: Implications for mobile battery awareness applications. In CHI '14 Proceedings of the SIGCHI Conference on Human Factors in Computing Systems, pages 1029-1038, 2014.

6. Kumaripaba Athukorala, Antti Oulasvirta, Dorota Glowacka, Jilles Vreeken, and Giulio Jacucci. Narrow or broad? Estimating subjective specificity in exploratory search. In CIKM '14 Proceedings of the 23rd ACM International Conference on Conference on Information and Knowledge Management, 2014.

7. Kumaripaba Athukorala, Antti Oulasvirta, Dorota Glowacka, Jilles Vreeken, and Giulio Jacucci. Supporting exploratory search through user modeling. In The 22nd Conference on User Modeling, July 2014.

8. Golnaz Badkobeh, Hideo Bannai, Keisuke Goto, Tomohiro I, Costas S. Iliopoulos, Shunsuke Inenaga, Simon J. Puglisi, and Shiho Sugimoto. Closed Factorization. Prague Stringology Conference 2014 (PSC 2014), pp. 162-168, 2014.

9. Oswald Barral, Gabor Aranyi, Sid Kouider, Alan Lindsay, Hielke Prins, Imtiaj Ahmed, Giulio Jacucci, Paolo Negri, Luciano Gamberini, David Pizzi, and Marc Cavazza. Covert persuasive technologies: Bringing subliminal cues to human-computer interaction. In the 9th International Conference on Persuasive Technology (PERSUASIVE 2014), in Lecture Notes in Computer Science, pages 1-12. Springer, 2014.

10. Oswald Barral and Giulio Jacucci. Applying physiological computing methods to study psychological, affective and motivational relevance. In the third International Workshop, Symbiotic 2014, in Lecture Notes in Computer Science, pages 35-46. Springer, 2014.

11. Oswald Barral, Ilkka Kosunen, and Giulio Jacucci. Influence of reading speed on pupil size as a measure of perceived relevance. In CEUR Workshop Proceedings. M. Jeusfeld c/o Redaktion Sun SITE, 2014.

12. Andrew Barron, Teemu Roos, and Kazuho Watanabe. Bayesian properties of normalized maximum likelihood and its fast computation. In the IEEE International Symposium on Information Theory (ISIT-2014), pages 1667-1671, 2014.

13. Djamal Belazzougui. Linear time construction of compressed text indices in compact space. In Proceedings of the annual ACM Symposium on Theory of Computing, pages 184-193. Association for Computing Machinery, 2014.

14. Djamal Belazzougui, Paolo Boldi, Giuseppe Ottaviano, Rossano Venturini, and Sebastiano Vigna. Cache-oblivious peeling of random hypergraphs. In Data Compression Conference. Proceedings, pages 352-361. IEEE, 2014.

15. Djamal Belazzougui, Gerth Stolting Brodal, and Jesper Sindahl Nielsen. Expected linear time sorting for word size. In the 14th Scandinavian Symposium and Workshops Proceedings. In Lecture Notes in Computer Science, pages 26-37, 2014.

16. Djamal Belazzougui and Fabio Cunial. Indexed matching statistics and shortest unique substrings. In the 21st International Symposium Proceedings, SPIRE 2014. In Lecture Notes in Computer Science, pages 179-190, 2014.

17. Djamal Belazzougui, Travis Gagie, Simon Gog, Giovanni Manzini, and Jouni Sirén. Relative FM-indexes. In the 21st International Symposium Proceedings, SPIRE 2014. In Lecture Notes in Computer Science, pages 52-64, 2014.

18. Jeremias Berg and Matti Järvisalo. SAT-based approaches to treewidth computation: An evaluation. In Tools with Artificial Intelligence (ICTAI), 2014 IEEE 26th International Conference, pages 328-335, 2014.

19. Jeremias Berg, Matti Järvisalo, and Brandon Malone. Learning optimal bounded treewidth Bayesian networks via maximum satisfiability. In JMLR: Workshop & Conference Proceedings, pages 86-95, 2014.

20. Joanna Bergström-Lehtovirta and Antti Oulasvirta. Modeling the functional area of the thumb on mobile touchscreen surfaces. In CHI '14 Proceedings of the SIGCHI Conference on Human Factors in Computing Systems, pages 1991-2000, New York, NY, USA, May 2014. ACM SIGCHI.

21. Andreas Björklund, Petteri Kaski, and Lukasz Kowalik. Counting thin subgraphs via packings faster than meet-in-the-middle time. In Chandra Chekuri, editor, Proceedings of the Twenty-Fifth Annual ACMSIAM Symposium on Discrete Algorithms, pages 594-603, Philadelphia, 2014. Society for Industrial and Applied Mathematics.

22. Andreas Björklund, Petteri Kaski, and Lukasz Kowalik. Fast witness extraction using a decision oracle. In Andreas S. Schulz and Dorothea Wagner, editors, Algorithms - ESA 2014, 22nd Annual European Symposium, Wroclaw, Poland, September 8-10, 2014, Proceedings, pages 149-160. Springer, September 2014.

23. Jori Bomanson, Martin Gebser, and Tomi Janhunen. Improving the normalization of weight rules in answer set programs. In 14th European Conference Proceedings, JELIA 2014. In Eduardo Fermé and Joao Leite, editors, Logics in Artificial Intelligence, pages 166-180. Springer, 2014.

24. Francesco Bonchi, Aristides Gionis, Francesco Gullo, and Antti Ukkonen. Distance oracles in edge-labeled graphs. In 17th International Conference on Extending Database Technology (EDBT), March 2014.

25. Marcin Budka, Mark Gabrys, Petr Kadlec, Manuel Martin Salvador, Stephanie Schwan, Athanasios Tsakonas, and Indre Zliobaite. From sensor readings to predictions: on the process of developing practical soft sensors. In Proceedings of The 13th International Symposium on Intelligent Data Analysis, 2014.

26. Kerstin Bunte, Matti Järvisalo, Jeremias Berg, Petri Myllymäki, Jaakko Peltonen, and Samuel Kaski. Optimal neighborhood preserving visualization by maximum satisfiability. In Carla E. Brodley and Peter Stone, editors, Proceedings of AAAI-14, The Twenty-Eighth AAAI Conference on Artificial Intelligence, pages 1694-1700. AAAI, July 2014.

27. Daniel Buschek, Oliver Schoenleben, and Antti Oulasvirta. Improving accuracy in back-of-device multitouch typing: A clustering-based approach to keyboard updating. In IUI '14: Proceedings of the 2014 International Conference on Intelligent User Interfaces, 10 p., February 2014.

28. Diogo Cabral, Valeria Orso, Youssef El-khouri, Maura Belio, Luciano Gamberini, and Giulio Jacucci. The role of location-based event browsers in collaborative behaviors: An explorative study. In NordiCHI '14 Proceedings of the 8th Nordic Conference on Human-Computer Interaction: Fun, Fast, Foundational, pages 951-954, 2014.

29. Timothy Cerexhe, Martin Gebser, and Michael Thielscher. Online agent logic programming with oClingo. In Proceedings of the 13th Pacific Rim International Conference on Artificial Intelligence (PRICAI 2014), pages 945-957. Springer-Verlag, 2014.

30. Rodica Ceterchi, Eugenio G. Omodeo, and Alexandru I. Tomescu. The representation of Boolean algebras in the spotlight of a proof checker. In CEUR Workshop Proceedings, pages 287-301. Rheinisch-Westfaelische Technische Hochschule Aachen, 2014.

31. Anna Cichonska, Pekka Marttinen, Samuli Ripatti, Juho Rousu, and Matti Pirinen. Meta-analysis of genome-wide association studies with multivariate traits. In MLSB14 : The eighth International Workshop on Machine Learning in Systems Biology, pages 27-30, 2014.

32. Jose Costa-Requena, Raimo Kantola, Aaron Yi Ding, Jukka Manner, Yanhe Liu, and Sasu Tarkoma. Software defined 5g mobile backhaul. In 5G for Ubiquitous Connectivity (5GU), 2014 1st International Conference, 2014.

33. Aaron Yi Ding and Jon Crowcroft. Use Case: Energy Awareness in Mobile Traffic Offloading, pages 270-276. Cambridge University Press, 2014.

34. Aaron Yi Ding, Jon Crowcroft, and Sasu Tarkoma. SoftOffload: a programmable approach toward collaborative mobile traffic offloading. In MobiSys '14 Proceedings of the 12th Annual International Conference on Mobile Systems, Applications, and Services, pages 368-368, 2014.

35. Stephane Durocher, Robert Fraser, Travis Gagie, Debajyoti Mondal, Matthew Skala, and Sharma V. Thankachan. Indexed geometric jumbled pattern matching. In 25th Annual Symposium Proceedings, CPM 2014. In Lecture Notes in Computer Science, pages 110-119, 2014.

36. Wolfgang Dvorak, Thomas Linsbichler, Emilia Oikarinen, and Stefan Woltran. Resolution-based grounded semantics revisited. In Simon Parsons, Nir Oren, Chris Reed, and Federico Cerutti, editors, Computational Models of Argument, Proceedings of COMMA 2014, pages 269-280. IOS Press, 2014.

37. Ralf Eggeling, Teemu Roos, Petri Myllymäki, and Ivo Grosse. Robust learning of inhomogeneous PMMs. In Proceedings of the 17th International Conference on Artificial Intelligence and Statistics (AISTATS-2014), pages 229-237, 2014.

38. Manuel J.A. Eugster, Tuukka Ruotsalo, Michiel Spapé, Ilkka Kosunen, Oswald Barral, Niklas Ravaja, Niklas Jacucci, and Samuel Kaski. Predicting term-relevance from brain signals. In Proceedings of the 37th International ACM SIGIR Conference on Research & Development in Information Retrieval, pages 425-434, New York, July 2014. ACM.

39. Xiannian Fan, Changhe Yuan, and Brandon Malone. Tightening Bounds for Bayesian Network Structure Learning. In Carla E. Brodley and Peter Stone, editors, Proceedings of the 28th AAAI Conference on Artificial Intelligence (AAAI 2014), pp. 2439-2445. AAAI Press, 2014.

40. Xiannian Fan, Brandon Malone, and Changhe Yuan. Finding Optimal Bayesian Network Structures with Constraints Learned from Data. In Jin Tian and Nevin L. Zhang, editors, Proceedings of the 30th Conference on Uncertainty in Artificial Intelligence (UAI 2014), pp. 200-209. AUAI Press, 2014.

41. Travis Gagie, Christopher Hoobin, and Simon J. Puglisi. Block graphs in practice. In CEUR Workshop Proceedings, pages 30-36, 2014.

42. Travis Gagie, Pawel Gawrychowski, Juha Kärkkäinen, Yakov Nekrich, and Simon J. Puglisi. LZ77-Based Self-indexing with Faster Pattern Matching. LATIN 2014: Theoretical Informatics, pages 731-742, 2014.

43. Travis Gagie and Simon J. Puglisi. Relative Lempel-Ziv with constant-time random access. Data Compression Conference (DCC), page 405, 2014.

44. Ivan Galov and Dmitry Korzun. Notification model for smart-m3 applications. In Sergey Balandin, Sergey Andreev, and Yevgeni Koucheryavy, editors, Proceedings of 14th International Conference, NEW2AN 2014 and 7th Conference, ruSMART 2014, pages 121-132, St. Petersburg, Russia, August 2014. Springer

45. Venkata Rama Kiran Garimella and Ingmar Weber. Co-following on twitter. In Proceedings of the 25th ACM Conference on Hypertext and Social Media, pages 249-254, New York, 2014. ACM.

46. Vinay K. Gautam, Eugen Czeizler, Pauline C. Haddow, and Martin Kuiper. Design of a minimal system for self-replication of rectangular patterns of DNA tiles. In A.-H. Dediu, M. Lozano, and C. Martin-Vide, editors, Proceedings of the 3nd International Conference on the Theory and Practice of Natural Computing (TPNC 2014, Granada, Spain, Dec 2014), Berlin Heidelberg, December 2014. Springer-Verlag.

47. Martin Gebser, Tomi Janhunen, and Jussi Rintanen. Answer set programming as SAT modulo acyclicity. In Proceedings of the 21st European Conference on Artificial Intelligence (ECAI 2014), pages 351-356. IOS Press, 2014.

48. Martin Gebser, Tomi Janhunen, and Jussi Rintanen. ASP encodings of acyclicity properties. In Proceedings of the 14th International Conference on Principles of Knowledge Representation and Reasoning (KR 2014), pages 634-637. AAAI Press, 2014.

49. Martin Gebser, Tomi Janhunen, and Jussi Rintanen. SAT modulo graphs: Acyclicity. In Proceedings of the 14th European Conference on Logics in Artificial Intelligence (JELIA 2014), pages 137-151. Springer-Verlag, 2014.

50. Martin Gebser, Roland Kaminski, Benjamin Kaufmann, and Torsten Schaub. Clingo = ASP + control: Preliminary report. In Technical Communications of the 30th International Conference on Logic Programming, ICLP 2014, 19-22 July, Vienna, Austria, 2014.

51. Aristides Gionis, Theodoros Lappas, Konstantinos Pelechrinis, and Evimaria Terzi. Customized tour recommendations in urban areas. In The 7th ACM WSDM Conference (WSDM2014), pages 313-322, February 2014.

52. Dorota Glowacka, Sayantan Hore. Balancing Exploration - Exploitation in Image Retrieval. In User Modelling, Adaptation and Personalization, UMAP 2014.

53. Mika Göös, Juho Hirvonen, and Jukka Suomela. Linear-in-delta lower bounds in the local model. In Proceedings, 33rd ACM SIGACTSIGOPS Symposium on Principles of Distributed Computing (PODC), pages 86-95. ACM Press, July 2014.

54. Oskar Gross, Antoine Doucet, and Hannu Toivonen. Document summarization based on word associations. In SIGIR '14 Proceedings of the 37th international ACM SIGIR Conference on Research and Development in Information Retrieval, pages 1023-1026, 2014.

55. Oskar Gross, Jukka Toivanen, Sandra Lääne, and Hannu Toivonen. Arts, news, poetry the art of framing. In Fifth International Conference on Computational Creativity, pages 336-339, 2014

56. Andrei Gurtov, Ilya Nikolaevskiy, and Pawani Porambage. Secure lightweight protocols for medical device monitoring. In Proceedings of 15th Conference of Open Innovations Association FRUCT, 2014.

57. Samuli Hemminki, Petteri Nurmi, and Sasu Tarkoma. Gravity and linear acceleration estimation on mobile devices. In 11th International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services, pages 50-59, 2014.

58. Miikka Hilke, Christoph Lenzen, and Jukka Suomela. Brief announcement: Local approximability of minimum dominating set on planar graphs. In Proceedings, 33rd ACM SIGACT-SIGOPS Symposium on Principles of Distributed Computing (PODC), pages 344-346. ACM Press, July 2014.

59. Sayantan Hore, Lasse Tyrväinen, Joel Pyykkö, and Dorota Glowacka. A reinforcement learning approach to query-less image retrieval. In Symbiotic Interaction, Lecture notes in computer science 8820, pp. 121-126, 2014.

60. Yi-Ta Hsieh, Antti Jylhä, and Giulio Jacucci. Pointing and selecting with tactile glove in 3d environment. In Third International Workshop Proceedings, Symbiotic 2014. In Lecture Notes in Computer Science, pages 133-137. Springer, 2014.

61. Ilkka Huopaniemi and Samuel Kaski. Computational Statistics Approaches to Study Metabolic Syndrome. A Systems Biology Approach to Study Metabolic Syndrome, pages 319-340. Springer, Berlin, 2014.

62. Antti Hyttinen, Frederick Eberhardt, and Matti Järvisalo. Constraint-based causal discovery: Conflict resolution with answer set programming. In Proceedings of the 30th Conference on Uncertainty in Artificial Intelligence (UAI), pages 340-349, 2014.

63. Esa Hyytiä, Suzan Bayhan, Jörg Ott, and Jussi Kangasharju. Searching a needle in (linear) opportunistic networks. In MSWiM '14 Proceedings of the 17th ACM international conference on Modeling, analysis and simulation of wireless and mobile systems, pages 187-196, 2014.

64. Tomohiro I, Juha Kärkkäinen, and Dominik Kempa. Faster sparse suffix sorting. In Leibniz International Proceedings in Informatics (LIPIcs), pages 386-396. Schloss Dagstuhl-Leibniz-Zentrum fuer Informatik, 2014.

65. Jun ichiro Hirayama, Takeshi Ogawa, and Aapo Hyvärinen. Simultaneous blind separation and clustering of coactivated EEG/MEG sources for analyzing spontaneous brain activity. In IEEE Engineering in Medicine and Biology Society. Conference Proceedings, pages 4932-4935. Institute of Electrical and Electronics Engineers, 2014.

66. Dino Ienco, Bernhard Pfahringer, and Indre Zliobaite. High density-focused uncertainty sampling for active learning over evolving stream data. In Proceedings of 3rd International Workshop on Big Data Mining, JMLR W&CP 36, pages 133-148, 2014.

67. Tapio Ikkala and Airi Lampinen. Defining the price of hospitality: Networked hospitality exchange via airbnb. In Proceedings of the Companion Publication of the 17th ACM Conference on Computer Supported Cooperative Work & Social Computing, pages 173-176. ACM, 2014.

68. Giulio Jacucci, Anna Spagnolli, Jonathan Freeman, and Luciano Gamberini. Symbiotic interaction: a critical definition and comparison to other human-computer paradigms. In Symbiotic Interaction, Lecture notes in computer science 8820, pp. 3-20, 2014.

69. Matti Järvisalo and Janne Henrik Korhonen. Conditional lower bounds for failed literals and related techniques. In 17th International Conference Proceedings, Held as Part of the Vienna Summer of Logic, VSL 2014. In Lecture Notes in Computer Science, pages 75-84. Springer-Verlag, 2014.

70. Mikael Johnson, Sampsa Hyysalo, Samuli Mäkinen, Pia Helminen, Kaisa Savolainen, and Louna Hakkarainen. From recipes to meals and dietary regimes: method mixes as key emerging topic in human-centred design. In NordiCHI '14 Proceedings of the 8th Nordic Conference on Human-Computer, pages 343-352. ACM, New York, October 2014.

71. Natasa Jonoska, Florin Manea, and Shinnosuke Seki. Strong square conjecture on binary words. In Lecture Notes in Computer Science: SOFSEM 2014: Proceedings of the 40th International Conference on Current Trends in Theory and Practice of Computer Science, pages 339-350. Springer, January 2014.

72. Kari Kähkönen and Keijo Heljanko. Lightweight state capturing for automated testing of multithreaded programs. In Martina Seidl and Nikolai Tillmann, editors, Tests and Proofs, pages 187-203, July 2014.

73. Teemu Kämäräinen, Matti Siekkinen, Yu Xiao, and Antti Ylä-Jääski. Towards pervasive and mobile gaming with distributed cloud infrastructure. In The 13th Annual Workshop on Network and Systems Support for Games (NetGames 2014), December 2014.

74. Kustaa Kangas, Petteri Kaski, Mikko Koivisto, and Janne H. Korhonen. On the number of connected sets in bounded degree graphs. In Dieter Kratsch and Ioan Todinca, editors, Graph-Theoretic Concepts in Computer Science, 40th International Workshop, WG 2014, Nouan-le-Fuzelier, France, June 25-27, 2014. Revised Selected Papers, pages 336-347. Springer, June 2014.

75. Kustaa Kangas, Teppo Mikael Niinimäki, and Mikko Koivisto. Learning chordal Markov networks by dynamic programming. In Advances in Neural Information Processing Systems, pages 2357-2365, 2014.

76. Anna Kantosalo, Jukka Toivanen, Ping Xiao, and Hannu Toivonen. From isolation to involvement: Adapting machine creativity software to support human-computer co-creation. In Fifth International Conference on Computational Creativity, pages 1-7, 2014.

77. Juha Kärkkäinen and Dominik Kempa. Engineering a lightweight external memory suffix array construction algorithm. In CEUR Workshop Proceedings, pages 53-60. CEUR-WS.org, 2014.

78. Juha Kärkkäinen and Dominik Kempa. LCP array construction in external memory. In Proceedings 13th Symposium on Experimental Algorithms (SEA 2014), pages 412-423. Springer, 2014.

79. Juha Kärkkäinen, Dominik Kempa, and Simon Puglisi. Hybrid compression of bitvectors for the fm-index. In Data Compression Conference, pages 302-311. IEEE, 2014.

80. Juha Kärkkäinen, Dominik Kempa, and Simon J. Puglisi. Lempel-Ziv parsing in external memory. In Data Compression Conference, pages 153-162. IEEE, 2014.

81. Juha Kärkkäinen, Dominik Kempa, and Simon J. Puglisi. String range matching. In Proceedings 25th Symposium on Combinatorial Pattern Matching (CPM 2014), pages 232-241, 2014.

82. Andreas Karrenbauer and Antti Oulasvirta. Improvements to keyboard optimization with integer programming. In The 27th Annual ACM Symposium on User Interface Software and Technology, pages 621-626, 2014.

83. Arijit Khan, Francesco Bonchi, Aristides Gionis, and Francesco Gullo. Fast reliability search in uncertain graphs. In EDBT, pages 535-546. OpenProceedings.org, March 2014.

84. Suleiman A. Khan and Samuel Kaski. Bayesian multi-view tensor factorization. In T. Calders and et al., editors, Machine Learning and Knowledge Discovery in Databases, ECML PKDD 2014, pages 656-671, Berlin, September 2014. Springer.

85. Arto Klami. Polya-gamma augmentations for factor models. In JMLR: Workshop and Conference Proceedings, pages 112-128, 2014.

86. Arto Klami, Guillaume Bouchard, and Abhishek Tripathi. Group-sparse embeddings in collective matrix factorization. In International Conference on Learning Representations, 2014.

87. Dmitry Korzun. Service formalism and architectural abstractions for smart space applications. In Proceedings of the 10th Central & Eastern European Software Engineering Conference in Russia, Moscow, Russia, October 2014. ACM.

88. Dmitry Korzun and Sergey Balandin. A peer-to-peer model for virtualization and knowledge sharing in smart spaces. In Proceedings of The Eighth International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies (UBICOMM 2014), pages 87-92, Rome, Italy, August 2014. IARIA.

89. Dmitry Korzun, Ivan Galov, Alexey Kashevnik, and Sergey Balandin. Virtual shared workspace for smart spaces and m3-based case study. In Sergey Balandin and Ulia Trifonova, editors, Proceedings of the 15th Conf. Open Innovations Framework Program FRUCT, pages 60-68, St. Petersburg, Russia, April 2014. ITMO University.

90. Kai Kuikkaniemi, Vilma Lehtinen, Matti Nelimarkka, Max Vilkki, Jouni Ojala, and Giulio Jacucci. Designing for presenters at public walk-up-and-use displays. In The 8th International Conference on Tangible, Embedded and Embodied Interaction - TEI '14, 2014.

91. Pardeep Kumar, Mika Ylianttila, Andrei Gurtov, and Mangal Sain. An efficient and simple key distribution scheme for smart environments. In 2014 IEEE International Conference on Consumer Electronics (ICCE), pages 468-469, January 2014.

92. Eemil Lagerspetz, Hien Thi Thu Truong, Sasu Tarkoma, and N. Asokan. Mdoctor: A mobile malware prognosis application. In IEEE International Conference on Distributed Computing Systems Workshops, pages 201-206, 2014.

93. Airi Lampinen. Account sharing in the context of networked hospitality exchange. In Proceedings of the ACM 2014 Conference on Computer Supported Cooperative Work, pages 499-504. ACM New York, NY, USA, 2014.

94. Juhana Laurinharju and Jukka Suomela. Brief announcement: Linial's lower bound made easy. In Proceedings, 33rd ACM SIGACT-SIGOPS Symposium on Principles of Distributed Computing (PODC), pages 377-378. ACM Press, July 2014.

95. Giovanna J. Lavado, Giovanni Pighizzini, and Shinnosuke Seki. Operational state complexity under Parikh equivalence. In Lecture Notes in Computer Science: DCFS 2014: Proceedings of the 16th International Workshop on Descriptional Complexity of Formal Systems, pages 294-305. Springer, August 2014.

96. Teemu Leinonen, Eva Durall, Kai Kuikkaniemi, Teemu Mikkonen, Antti Syvänen, Matti Nelimarkka, and Tarmo Toikkanen. Design for learning: Enhancing participation in learning through design thinking. In World Conference on Educational Multimedia, 2014.

97. Guohua Liu, Tomi Janhunen, and Ilkka Niemelä. Introducing real variables and integer objective functions to answer set programming. In Michael Hanus and Ricardo Rocha, editors, Declarative Programming and Knowledge Management, pages 118-135. Springer, September 2014.

98. Madhusanka Liyanage, Julia V. Chirkova, and Andrei Gurtov. Access point selection game for mobile wireless users. In 8th IEEE WoWMoM Workshop on Autonomic and Opportunistic Communications, 2014.

99. Madhusanka Liyanage, Mika Ylianttila, and Andrei Gurtov. Securing the control channel of software-defined mobile networks. In 1st IEEE WoWMoM Workshop on Software Defined Networking Architecture and Applications, 2014.

100. Jussi Määttä, Samuli Siltanen, and Teemu Roos. A fixed-point image denoising algorithm with automatic window selection. In European Workshop on Visual Information Processing. IEEE, 2014.

101. Eric Malmi. Quality matters: usage-based app popularity prediction. In Proceedings of the 2014 ACM International Joint Conference on Pervasive and Ubiquitous Computing: Adjunct Publication, pages 391-396. ACM, 2014.

102. Brandon Malone and Changhe Yuan. A depth-first branch and bound algorithm for learning optimal Bayesian networks. In Third International Workshop, GKR 2013. In Lecture Notes in Computer Science, pages 111-122. Springer International Publishing, 2014.

103. Brandon Michael Malone, Kustaa Kangas, Matti Järvisalo, Mikko Koivisto, and Petri Myllymäki. Predicting the hardness of learning Bayesian networks. In the Proceedings of the 28th AAAI Conference on Artificial Intelligence (AAAI 2014), pages 2460-2466, 2014.

104. Florin Manea, Mike Müller, Dirk Nowotka, and Shinnosuke Seki. Generalized Lyndon-Schützenberger equations. In Lecture Notes in Computer Science: MFCS 2014: Proceedings of the 39th International Symposium on Mathematical Foundations of Computer Science, pages 402-413. Springer, August 2014.

105. Mario Marchand, Hongyu Su, Emilie Morvant, Juho Rousu, and John Shawe-Taylor. Multilabel structured output learning with random spanning trees of max-margin Markov networks. In Advances in Neural Information Processing System NIPS2014, pages 873-881, December 2014.

106. Martin D. Muggli, Simon J. Puglisi, and Christina Boucher. Efficient Indexed Alignment of Contigs to Optical Maps, pages 68-81. Algorithms in Bioinformatics, Lecture Notes in Computer Science. Springer, 2014.

107. Suneth Namal, Ijaz Ahmad, Markku Jokinen, Andrei Gurtov, and Mika Ylianttila. SDN core for mobility between cognitive radio and 802.11 networks. In 8th International Conference on Next Generation Mobile Applications, Services, and Technologies (NGMAST'14), 2014.

108. Matti Nelimarkka. An experimental approach to explore discourse architectures. Proceedings of the COOP 2014 Workshop on Collaborative Technologies in Democratic Processes, pages 107-110, 2014.

109. Matti Nelimarkka and Madeeha Ghori. The Effect of Variations of Prior on Knowledge Tracing. EDM 2014 Extended Proceedings, 2014.

110. Matti Nelimarkka, Kai Kuikkaniemi, and Giulio Jacucci. A field trial of an anonymous backchannel among primary school pupils. In Proceedings of the 18th International Conference on Supporting Group Work - GROUP '14, pages 238-242, 2014.

111. Matti Nelimarkka, Brandie Nonnecke, Sanjay Krishnan, Tanja Aitamurto, Camille Crittenden, Chris Garland, Conrad Gregory, and Ching-chang Allen Huang. Comparing three online civic engagement platforms using the spectrum of public participation framework. In Conference on Internet, Politics and Policy (IPP), 2014.

112. Ilya Nikolaevskiy, Dmitry Korzun, and Andrei Gurtov. Security for medical sensor networks in mobile health systems. In Proceedings of 2014 IEEE 15th International Symposium and Workshops on a World of Wireless, Mobile and Multimedia Networks, Sydney, Australia, June 2014. IEEE.

113. Emilia Oikarinen and Matti Järvisalo. Answer set solver backdoors. In 14th European Conference Proceedings, JELIA 2014. In Lecture Notes in Computer Science, pages 674-683. Springer, 2014.

114. Eugenio Omodeo, Carla Piazza, Alberto Policriti, and Alexandru Ioan Tomescu. Hyper-extensionality and one-node elimination on membership graphs. In CEUR Workshop Proceedings, pages 341-346. Rheinisch-Westfaelische Technische Hochschule Aachen, 2014.

115. Nick Parlante, Julie Zelenski, Josh Hug, John Nicholson, John DeNero, Antti Laaksonen, Arto Vihavainen, Frank McCown, and KevinWayne. Nifty assignments. In ACM Special Interest Group on Computer Science Education SIGCSE, pages 621-622, 2014.

116. Sameer Patil, Roman Schlegel, Apu Kapadia, and Adam J. Lee. Reflection or action?: How feedback and control affect location sharing decisions. In CHI 2014: The ACM CHI Conference on Human Factors in Computing Systems, page 10, New York, NY, USA, April 2014.

117. Patrik Pluchino, Luciano Gamberini, Oswald Barral, and Filippo Minelle. How semantic processing of words evokes changes in pupil. In Third International Workshop Proceedings, Symbiotic 2014. In Lecture Notes in Computer Science, pages 99-112, 2014.

118. Pawani Porambage, Corinna Schmitt, Pardeep Kumar, Andrei Gurtov, and Mika Ylianttila. Two-phase authentication protocol for wireless sensor networks in distributed IoT applications. In IEEE WCNC'14, Istanbul, Turkey, pages 1-6, 2014.

119. Eeva Raita and Antti Oulasvirta. Mixed feelings?: The relationship between perceived usability and user experience in the wild. In NordiCHI '14 Proceedings of the 8th Nordic Conference on Human-Computer Interaction: Fun, Fast, Foundational, pages 1-10, 2014.

120. Jesse Read and Jaakko Hollmén. A deep interpretation of classifier chains. In Advances in Intelligent Data Analysis XIII - 13th International Symposium, IDA 2014, pages 251-262, November 2014.

121. Jussi Rintanen. Constraint-based algorithm for computing temporal invariants. In E. Fermé and J. Leite, editors, Logics in Artificial Intelligence, 14th European Conference, JELIA 2014, September 2014, Proceedings, pages 665-673. Springer-Verlag, 2014.

122. Romeo Rizzi and Alexandru I. Tomescu. Faster FPTASes for counting and random generation of knapsack solutions. In 22th Annual European Symposium Proceedings. In Lecture Notes in Computer Science, pages 762-773. Springer, 2014.

123. Stefanie Roos, Liang Wang, Thorsten Strufe, and Jussi Kangasharju. Enhancing compact routing in CCN with prefix embedding and topology-aware hashing. In MobiArch '14 Proceedings of the 9th ACM Workshop on Mobility in the Evolving Internet Architecture, pages 49-54, 2014.

124. Polina Rozenshtein, Aris Anagnostopoulos, Aristides Gionis, and Nikolaj Tatti. Event detection in activity networks. In KDD, pages 1176-1185, August 2014.

125. Polina Rozenshtein, Nikolaj Tatti, and Aristides Gionis. Discovering dynamic communities in interaction networks. In ECML PKDD, pages 678-693, September 2014.

126. Tuukka Ruotsalo, Jaakko Peltonen, Manuel Eugster, Dorota Glowacka, Aki Reijonen, Giulio Jacucci, Petri Myllymäki, and Samuel Kaski. IntentRadar: search user interface that anticipates user's search intents. In CHI '14 Extended Abstracts on Human Factors in Computing Systems, pages 455-458, 2014.

127. Hiroaki Sasaki, Michael U. Gutmann, H. Shouno, and Aapo Hyvärinen. Estimating dependency structures for non-Gaussian components with linear and energy correlations. In JMLR: Workshop and Conference Proceedings, pages 868-876. Journal of Machine Learning Research, 2014.

128. Baris Serim. Querying and display of information: Symbiosis in exploratory search interaction scenarios. In Third International Workshop Proceedings, Symbiotic 2014. In Lecture Notes in Computer Science, pages 115-120, 2014.

129. Baris Serim, Vuong Thanh Tung, Tuukka Ruotsalo, Luana Micallef, and Giulio Jacucci. MailVis: Visualizing emailbox for re-finding emails. In IEEE VIS 2014 Posters, November 2014.

130. Sohan Seth, John Shawe-Taylor, and Samuel Kaski. Retrieval of experiments by efficient comparison of marginal likelihoods. In Chu Kiong Loo, Kemm Siah Yap, Kok Wai Wong, Andrew Teon, and Kaizhu Huang, editors, Neural Information Processing, Proceedings of ICONIP 2014, pages 135-142, Switzerland, November 2014. Springer.

131. Sohan Seth, John Shawe-Taylor, and Samuel Kaski. Retrieval of experiments by efficient comparison of marginal likelihoods. In 21st International Conference Proceedings, ICONIP 2014. In Lecture Notes in Computer Science, pages 135-142. Springer, 2014.

132. Michael Sherman, Gradeigh Clark, Yulong Yang, Shridatt Sugrim, Arttu Modig, Janne Lindqvist, Antti Oulasvirta, and Teemu Roos. User-generated free-form gestures for authentication: Security and memorability. In MobiSys, pages 176-189, 2014.

133. Antti Siirtola. Bounds2: A tool for compositional multi-parametrised verification. In 20th International Conference Proceedings, TACAS 2014. In Erika Brahm and Klaus Havelund, editors, Lecture Notes in Computer Science, vol. 8413, pages 599-604. Spinger-Verlag, April 2014.

134. Antti Siirtola. Parametrised interface automata. In Andrey Mokhov, Luca Bernardinello, and Kamel Barkaoui, editors, Proceedings of the 14th International Conference on Application of Concurrency to System Design (ACSD 2014), pages 176-185. IEEE, June 2014.

135. Konsta Sirviö and Jaakko Hollmén. Multi-step ahead forecasting of road condition using least squares support vector machines. In Proceedings of the 22nd European Symposium on Artificial Neural Networks, Computational Intelligence and Machine Learning (ESANN 2014), pages 661-666, Bruges, 2014.

136. Mats Sjöberg, Ionu Mironicé, Markus Schedl, and Bogdan Ionescu. Far at mediaEval 2014 violent scenes detection: A concept-based fusion approach. In CEUR Workshop Proceedings, 2014.

137. Michiel Spapé and Niklas Ravaja. Social psychology of the digital age: The interpersonal neuroscience of mediated communication. In 6th International Conference Proceedings, SCSM 2014. In Social Computing and Social Media, pages 494-505, 2014.

138. Ben Steichen, Tuukka Ruotsalo, Maristella Agosti, Giulio Jacucci, Séamus Lawless, Peter Brusilovsky, Vincent Wade, Samuel Kaski, and Oswald Barral. Joint Workshop on Personalised Information Access-PIA 2014. Ceur WS, Aalborg, Denmark, 2014.

139. Hongyu Su, Aristides Gionis, and Juho Rousu. Structured prediction of network response. In Proceedings, 31th International Conference on Machine Learning ICML2014, pages 442-450, June 2014.

140. Nitin Sukhija, Brandon Malone, Srishti Srivastava, Ioana Banicescu, and Florina Ciorba. Portfolio-based Selection of Robust Dynamic Loop Scheduling Algorithms using Machine Learning. In IEEE International Symposium on Parallel & Distributed Processing Workshops, pp. 1638-1647. IEEE, 2014.

141. Sotirios Tasoulis, Lu Cheng, Niko Välimäki, Nicholas Croucher, Simon Harris, William Hanage, Teemu Roos, and Jukka Corander. Random projection based clustering for population genomics. In IEEE International Conference on Big Data, pages 675-682, 2014.

142. Nikolaj Tatti. Faster way to agony: Discovering hierarchies in directed graphs. In Proceedings of European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (EC-MLPKDD 2014), 2014.

143. Jukka Toivanen, Oskar Gross, and Hannu Toivonen. "the officer is taller than you, who race yourself!" using document specific word associations in poetry generation. In Computational Creativity, 2014.

144. Hien Thi Thu Truong, Xiang Gao, Babins Shrestha, Nitesh Saxena, N. Asokan, and Petteri Tapio Nurmi. Comparing and fusing different sensor modalities for relay attack resistance in zero-interaction authentication. In IEEE International Conference on Pervasive Computing and Communications, pages 163-171, 2014.

145. Hien Thi Thu Truong, Eemil Lagerspetz, Petteri Nurmi, Adam J. Oliner, Sasu Tarkoma, N. Asokan, and Sourav Bhattacharya. The company you keep: Mobile malware infection rates and inexpensive risk indicators. In Cryptography and Security, pages 39-50, 2014.

146. Grigorios Tsoumakas, Apostolos Papadopoulos, Weining Qian, Stavros Vologiannidis, Alexander D'yakonov, Antti Puurula, Jesse Read, Jan Svec, and Stanislav Semenov. Wise 2014 challenge: Multilabel classification of print media articles to topics. In 15th International Conference on Web Information Systems Engineering (WISE 2014). Proceedings Part II, Lecture Notes in Computer Science, vol 8787, October 2014.

147. Antti Ukkonen. Indirect estimation of shortest path distributions with small-world experiments. In Matthijs van Leeuwen, Hendrik Blockeel and Veronica Vinciotti, editors, Advances in Intelligent Data Analysis XIII, pages 333-344, November 2014.

148. Matthijs van Leeuwen and Antti Ukkonen. Fast estimation of the pattern frequency spectrum. In The European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (EC-MLPKDD), pages 114-129, 2014.

149. Jie Xiong, Väinö Jääskinen, and Jukka Corander. Recursive learning for sparse Markov models. Bayesian analysis, 2014.

150. Zhirong Yang, Jaakko Peltonen, and Samuel Kaski. Optimization equivalence of divergences improves neighbor embedding. In Eric P. Xing and Tony Jebara, editors, Proceedings of ICML 2014, The 31st International Conference on Machine Learning, JMLR W& CP 32, pages 460-468. JMLR, 2014.

151. Igor A. Zikratov and Ilya S. Lebedev and Andrei V. Gurtov. Trust and Reputation Mechanisms for Multi-agent Robotic Systems. In Internet of Things, Smart Spaces, and Next Generation Networks and Systems - 14th International Conference (NEW2AN) 2014 and 7th Conference, ruSMART 2014, St. Petersburg, Russia, August 27-29, 2014, Proceedings, pages 106-120, 2014.

152. Indre Zliobaite and Jaakko Hollmén. Mobile sensing data for urban mobility analysis: A case study in preprocessing. In Proc. of Mining Urban Data workshop at EDBT/ICDT, pages 309-314, 2014.

D.3. Scientific monographs and edited books

1. Amotz Bar-Noy, Thomas Erlebach, Magnus M. Halldorsson, Sotiris Nikoletseas, and Pekka Orponen. Special Issue on Algorithms for Sensor Systems, Wireless Ad Hoc Networks and Autonomous Mobile Entities, Theoretical Computer Science, Vol. 553. Elsevier BV, Netherlands, 2014.

2. Anton Belov, Daniel Diepold, Marijn J.H. Heule, and Matti Järvisalo. Proceedings of SAT Competition 2014: Solver and Benchmark Descriptions. Department of Computer Science Series of Publications B. University of Helsinki, 2014.

3. Silvia Gabrielli, Stefania Castellani, Antti Jylhä, and Jutta Willamowski. EAI Endorsed Transactions on Ambient Systems: Special Issue: "USCIAMO: Urban Sustainable, Collaborative and Adaptive Mobility", volume 14. ICST, 4 edition, 2014.

4. Samuel Kaski and Jukka Corander. Proceedings of the Seventeenth International Conference on Artificial Intelligence and Statistics, JMLR W& CP, Vol. 33. JMLR, USA, 2014.

5. Ravi Kumar, Hannu Toivonen, Jian Pei, Joshua Zhexue Huang, and Xindong Wu. Proceedings, 14th IEEE International Conference on Data Mining. ICDM, 2014.

6. Jari Laarni, Niklas Ravaja, Timo Saari, Saskia Böcking, Tilo Hartmann, and Holger Schramm. Ways to measure presence: Review and future directions. Routledge, 2014.

7. Veli Mäkinen. Editorial: Special issue on algorithms for sequence analysis and storage. Algorithms, 7(1):186-187, 2014.

8. Jorma Rissanen, Petri Myllymäki, Teemu Roos, and Narayana Santhanam. Proceedings of the Seventh Workshop on Information Theoretic Methods in Science and Engineering. Series of Publications B. University of Helsinki, Department of Computer Science, 2014.

9. Michiel Spapé, Rinus Verdonschot, Saskia van Danzig, and Henk van Steenbergen. The E-Primer: An Introduction to Creating Psychological Experiments in E-Prime. Amsterdam University Press / The University of Chicago Press, Amsterdam, Netherlands / Chicago, US, 2014.

10. Sasu Tarkoma, Matti Siekkinen, Eemil Lagerspetz, and Yu Xiao. Smartphone energy consumption: modeling and optimization. Cambridge University Press, 2014.

D.4. Other publications

1. Francesco Calimeri, Martin Gebser, Marco Maratea, and Francesco Ricca. The design of the fifth answer set programming competition. In Technical Communications of the 30th International Conference on Logic Programming, ICLP 2014, 19-22 July, Vienna, Austria, 2014.

2. Christopher Helf, Patrick Zwickl, Alessio Falco, Carmina Castellano Tejedor, Johanna Nurmi, Jose Costa-Requena, Pilar Lusilla, and Svenja Schröder. D3.3 Interim Motivational Service Design Document. 2014.

3. Antti Kangasrääsiö, Dorota Glowacka, and Samuel Kaski. Improving controllability and predictability of an interactive user model driven search interface. In NIPS 2014 workshop on Human Propelled Machine Learning, December 2014.

4. Antti Kangasrääsiö, Dorota Glowacka, Tuukka Ruotsalo, Jaakko Peltonen, Manuel Eugster, Ksenia Konyushkova, Kumaripaba Athukorala, Ilkka Kosunen, Aki Reijonen, Petri Myllymäki, Giulio Jacucci, and Samuel Kaski. Interactive visualization of search intent for exploratory information retrieval. In ICML 2014 workshop on Crowdsourcing and Human Computing, June 2014.

5. Tero Myllymäki, Ari Haukkala, Alessio Falco, Johanna Nurmi, Pilar Lusilla, Carmina Castellano Tejedor, Carlos Ramos, Sarah Kuczora, Teemu Kärkkäinen, Edward Mutafungwa, and Jose Costa-Requena. D3.1 Interim report on behavioural representation and virtual individual modelling. 2014.

6. Johanna Nurmi, Ari Haukkala, Alessio Falco, Carmina Castellano Tejedor, Christophe Lohr, Christopher Helf, Edward Mutafungwa, Hannes Weisgrab, Helmut Hlavacs, Jose Costa-Requena, Niklas Ravaja, Patrick Zwickl, Peter Reichl, Philippe Tanguy, Pilar Lusilla, Sarah Kuczora, Teemu Kärkkäinen, Tero Myllymäki, and Timo Korhonen. D2.4 Ethical and privacy guidelines for PRECIOUS system implementation. 2014.

7. Matti Nelimarkka and Eva Durall. Presemo and feeler: 2 designs for learning based on data. Technical report, Interaktiivinen Tekniikka Koulutuksessa 2014 -konferenssin tutkijatapaamisen artikkelit, 2014.

8. Jaakko Peltonen, Ali Faisal, Elisabeth Georgii, Johan Rung, and Samuel Kaski. Toward computational cumulative biology by combining models of biological datasets. In NIPS 2014 workshop on Machine Learning in Computational Biology, 2014.

9. Olli Pitkänen. Sinun tietosi eivät ole sinun: rekisteröidyn oikeus hyödyntää omia henkilötietojaan. Oikeus, (2):202-214, 2014.

10. Niklas Ravaja, Mikko Salminen, Mikael Saarinen, Marja-Liisa Manka, Laura Bordi, Marjut Manka, and Kirsi Heikkilä-Tammi. LeadEmo - Edistynyt menetelmä esimiesten tunneosaamisen kehittämiseksi. Aalto-yliopisto ja Tampereen yliopisto, 2014.

11. Tuukka Ruotsalo, Jaakko Peltonen, Manuel J. A. Eugster, Dorota Glowacka, Ksenia Konyushkova, Kumaripaba Athukorala, Ilkka Kosunen, Aki Reijonen, Petri Myllymäki, Giulio Jacucci, and Samuel Kaski. Bayesian optimization in interactive scientific search. In NIPS 2014 workshop on Bayesian Optimization in Academia and Industry, 2014.

12. Sakari Tamminen, Airi Lampinen, and Vilma Lehtinen. Digitaalinen vuorovaikutus, muutos ja luottamus, In Arkiajattelu, tieto ja oikeudenmukaisuus, pages 225-247. Helsingin yliopisto, Helsinki, 2014.

13. Jukka Toivanen. Elot sai karkelojen teitä – koneet, luovuus ja runous. Särö: kirjallisuus- ja kulttuurilehti (23-24):68-73, 2014.

D.5. Computer programs and algorithms

1. Leena Salmela. LoRDEC: Long read de Bruijn graph error correction, 2014.

2. Jukka Suomela. Types2: Type and hapax accumulation curves, 2014.

3. Tuukka Ruotsalo, Jaakko Peltonen, Manuel Eugster, Petri Myllymäki, Giulio Jacucci, Samuel Kaski, and Dorota Glowacka. LOW-DIMENSIONAL INFORMATION DISCOVERY AND PRESENTATION SYSTEM, APPARATUS AND METHOD U.S. Patent Application number: 20150088871, 2014.

D.6. Doctoral dissertations by HIIT researcher

1. Prem Raj Adhikari. Probabilistic Modelling of Multiresolution Biological Data. PhD thesis, Aalto University, School of Science, 2014.

2. Joanna Bergström-Lehtovirta. The Effects of Mobility on Mobile Input. PhD thesis, Aalto University, School of Science, 2014.

3. Sourav Bhattacharya. Continuous Context Inference on Mobile Platforms. PhD thesis, University of Helsinki, Department of Computer Science, 2014.

4. Ali Faisal. Retrieval of Gene Expression Measurements with Probabilistic Models. PhD thesis, Aalto University, School of Science, 2014.

5. Mikko Hakala. Atomic and electronic transport on surfaces and interfaces. PhD thesis, Aalto University, School of Science, 2014.

6. Roland Kindermann. SMT-based Verification of Timed Systems and Software. PhD thesis, Aalto University, School of Science, 2014.

7. Janne Korhonen. Graph and Hypergraph Decompositions for Exact Algorithms. PhD thesis, University of Helsinki, Department of Computer Science, 2014.

8. Dmitriy Kuptsov. Improving Dependability of Networks with Penalty and Revocation Mechanisms. PhD thesis, Aalto University, School of Science, 2014.

9. Eemil Lagerspetz. Collaborative Mobile Energy Awareness. PhD thesis, University of Helsinki, Department of Computer Science, 2014.

10. Tero Laitinen. Extending SAT Solver with Parity Reasoning. PhD thesis, Aalto University, School of Science, 2014.

11. Airi Lampinen. Interpersonal Boundary Regulation in the Context of Social Network Services. PhD thesis, University of Helsinki, Department of Social Research, 2014.

12. Laura Langohr. Methods for Finding Interesting Nodes in Weighted Graphs. PhD thesis, University of Helsinki, Department of Computer Science, 2014.

13. Ming Li. Improving the Efficiency of Multipath Transport Protocols. PhD thesis, Aalto University, School of Science, 2014.

14. Joonas Paalasmaa. Monotoring Sleep with Force Sensor Measurement. PhD thesis, University of Helsinki, Department of Computer Science, 2014.

15. Juuso Parkkinen. Probabilistic components of molecular interactions and drug responses. PhD thesis, Aalto University, School of Science, 2014.

16. Juha Salmilehto. Control of Open Quantum Systems. PhD thesis, Aalto University, School of Science, 2014.

17. Tommi Suvitaival. Bayesian Multi-Way Models for Data Translation in Computational Biology. PhD thesis, Aalto University, School of Science, 2014.

18. Jelena Telenius. Properties of the Human Tear Film Lipid Layer - Insight Through Molecular Simulations. PhD thesis, Aalto University, School of Science, 2014.

19. Janne Toivola. Advances in Wireless Damage Detection for Structural Health Monitoring. PhD thesis, Aalto University, School of Science, 2014.

20. Christer Uppstu. Electronic properties of graphene from tight-binding simulations. PhD thesis, Aalto University, School of Science, 2014.

21. Seppo Virtanen. Bayesian latent variable models for learning dependencies between multiple data sources. PhD thesis, Aalto University, School of Science, 2014.

22. Siert Wieringa. Incremental Satisfiability Solving and its Applications. PhD thesis, Aalto University, School of Science, 2014.

D.7. Master's Theses by a HIIT researcher or instructed by a HIIT researcher

1. Ossi Ala-Peijari. Bitcoin The Virtual Currency: Energy Efficient Mining of Bitcoins. Master's thesis, Department of Computer Science and Engineering, Aalto University, 2014.

2. Bakiye Hilal Asan-Liski. Comparative Analysis of Cancer Stem Cell Gene Expressions with respect to Intra-tumor Heterogenity. Master's thesis, Department of Mathematics and Statistics, University of Helsinki, 2014.

3. Otto Berg. Cost Optimal Correlation Clustering via Partial Maximum Satiffiability. Master's thesis, Department of Mathematics and Statistics, University of Helsinki, 2014.

4. Jori Bomanson. Developing Efficient Encodings for Weighted Expressions in Answer Set Programs. Master's thesis, Department of Information and Computer Science, Aalto University, 2014.

5. Lauri Cajanus. Utilizing Big Data in Marketing, Research and Product Development: Case Study in Sports Monitoring Company. Master's thesis, Department of Computer Science and Engineering, Aalto University, 2014.

6. Julia Casado Cuervo. Integrating ENCODE data to model transcriptional regulation. Master's thesis, Department of Information and Computer Science, Aalto University, 2014.

7. Maneesh Chauhan. Measurement and Analysis of Networking Performance in Virtualised Environments. Master's thesis, Department of Computer Science and Engineering, Aalto University, 2014.

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