Objective

My research interests are the fundamental problems in computer science and information technology that impact the real world, especially in the areas distributed computing, networking, and algorithms; currently in particular, wireless networking, wide area networking, mobile systems, social networks, and physical algorithms.

Overview of Achievements

- Head of the Distributed Computing Group at ETH Zurich, established in 2001.
- Unusual blend of basic and applied research, proving theorems on the one hand, and building
 practical systems on the other. More details on our research can be found on the group web page
 www.disco.ethz.ch.
- More than 400 peer-reviewed publications in different areas: Distributed Computing (e.g. PODC, SPAA, DISC), Systems & Networking (e.g. SIGCOMM, OSDI, MobiCom, MobiHoc, SenSys, IPSN, HotNets, IPTPS), or Theory of Computer Science (e.g. STOC, FOCS, SODA, ICALP).
- Members of our group have won several best paper awards at top conferences such as PODC, SPAA,
 DISC, or MobiCom. For more details, please visit www.disco.ethz.ch/publications.html.
- Winning Prize for Innovations in Distributed Computing in 2012, for "extensive contributions to the study of distributed approximation".
- Some projects turned into startup companies, e.g. Wuala, StreamForge, BitSplitters.
- Several projects have been covered by popular blogs and traditional media, e.g. Gizmodo, Lifehacker,
 New York Times, NBC News, NZZ, PC World Magazing, Red Herring, Technology Review.

Ph.D. Graduates

#	Student	Thesis Title	Co-Examiners	Defense
43	Karolis	Learning to Understand the	Andreas Loukas, Roche;	July 2023
	Martinkus	Graph Structure: From Classification to Generation	Haggai Maron, Technion	

42	Tejaswi Nadahalli	Improving Censorship-Resistance, Privacy, and Scalability of the Bitcoin Ecosystem	Majid Khabbazian, Alberta; Andrew Miller, UIUC	April 2023
41	Ye Wang	Decentralized Finance: Users, Applications, and Systems	Giulia Fanti, CMU; Elissa Redmiles, MPI SWS	July 2022
40	Damian Pascual	Leveraging and Understanding Deep Learning Models from Brain Activity to Language Processing	Yonatan Belinkov, Technion; Mariya Toneva, MPI SWS	May 2022
39	Yuyi Wang	The Power of Patience: Action Delay in Online Algorithms	Yossi Azar, Tel-Aviv; Shay Kutten, Technion	May 2022
38	Oliver Richter	Architectural Considerations for Deep Reinforcement Learning	Will Dabney, DeepMind; Kee- Eung Kim, KAIST; Donglin Wang, WestLake;	January 2022
37	Simon Tanner	Hiding Data in Music and Analyzing Air Traffic Surveillance Transmissions	Haitham Hassanieh, UIUC	May 2021
36	Andras Pal Papp	A Study of Influence Propagation in Social and Financial Networks	Ulrik Brandes, ETH Zurich; Agnieszka Rusinowska, Sorbonne	May 2021
35	Zeta Avarikioti	A Theoretical Treatment of Blockchains Scaling Protocols	Matteo Maffei, TU Vienna; Andrew Miller, UIUC	March 2021
34	Gino Brunner	Applications of Deep Learning for Sequential Data: Music, Human Activity and Language	Thomas Hofmann, ETH Zurich	September 2020
33	Darya Melnyk	Byzantine Agreement on Representative Input Values Over Public Channels	Ittai Abraham, VMware Research; Bryan Ford, EPFL	August 2020
32	Pankaj Khanchandani	Robust and Scalable Distributed Ordering	Eli Gafni, UCLA; Rachid Guerraoui, EPFL	June 2020
31	Manuel Eichelberger	Robust Global Localization Using GPS and Aircraft Signals	Penina Axelrad, Colorado	June 2019
30	Sebastian Brandt	Distributed Lower Bounds: Lovász Local Lemma, Mobile Agents,	Michael Elkin, Ben-Gurion; Seth Pettie, Michigan	December 2017

29	Michael König	Adding more PHY to the MAC: Exploiting Physical Layer Effects in Wireless Networks	Olaf Landsiedel, Chalmers	July 2017
28	Pascal Bissig	Mobile Sensing: GPS Localization, WiFi Mapping, Applications, and Risks	Jie Liu, MSR Redmond	April 2017
27	Klaus-Tycho Foerster	Don't Disturb my Flows: Algorithms for Consistent Network Updates in Software Defined Networks	Ratul Mahajan, MSR Redmond; Stefan Schmid, Aalborg	September 2016
26	Philipp Brandes	Adversarial Input in Games and Markets	Martin Hoefer, MPI Saarbrucken	July 2016
25*	Christian Decker	On the Scalability and Security of Bitcoin	Elaine Shi, Cornell; Emin Gün Sirer, Cornell	January 2016
24	Barbara Keller	Society in Graphs	Eric Goles, Adolfo Ibáñez	November 2015
23	Jochen Seidel	Anonymous Distributed Computing	Jukka Suomela, Aalto; Yuval Emek, Technion	August 2015
22	Jara Uitto	Collaboration in Multi-Agent Systems: Active Learning and Fault-Tolerance	Amos Korman, CNRS & Paris Diderot; Yuval Emek, Technion	August 2015
21	Tobias Langner	Collaboration in Distributed Systems: Robots, Ants, and Matchings	Franck Petit, INRIA & Paris 6; Yuval Emek, Technion	February 2015
20	Samuel Welten	Sensing with Smartphones: Light Authentication, Heavy Personalization and Medical Applications	Andrew Campbell, Dartmouth	September 2013
19	Stephan Holzer	Distance Computation, Information Dissemination, and Wireless Capacity in Networks	Artur Czumaj, Warwick; Pierre Fraigniaud, CNRS & Paris 7	September 2013
18	Raphael Eidenbenz	Coping with Selfishness in Distributed Systems: Mechanism Design in Multi-Core and Peer-to- Peer Systems	Karl Aberer, EPFL; Dov Monderer, Technion	February 2012

17	Johannes Schneider	Decentralized Coordination: Methods and Applications	Rachid Guerraoui, EPFL; Uzi Vishkin, Maryland	November 2011
16	Philipp Sommer	Wireless Embedded Systems: Time, Location, and Applications	Akos Ledeczi, Vanderbilt; John Stankovic, Virginia	September 2011
15	Remo Meier	Toward Structured and Time- Constraint Content Delivery Systems	Johan Pouwelse, TU Delft	March 2011
14*	Christoph Lenzen	Synchronization and Symmetry Breaking in Distributed Systems	Danny Dolev, Hebrew University; Berthold Vöcking, RWTH Aachen	January 2011
13	Michael Kuhn	Understanding and Organizing User Generated Data: Methods and Applications	Albrecht Schmidt, LMU Munich	August 2010
12	Nicolas Burri	Ultra-Low Power Sensor Networks: Development Tools, Design, and Implementation	Jochen Schiller, FU Berlin	April 2010
11	Roland Flury	Routing on the Geometry of Wireless Ad Hoc Networks	Sandor Fekete, TU Braunschweig; Leonidas Guibas, Stanford	September 2009
10	Olga Goussevskaia	Computational Complexity and Scheduling Algorithms for Wireless Networks	Stephan Eidenbenz, Los Alamos National Lab; Nitin Vaidya, Urbana-Champaign	July 2009
9	Yvonne Anne Pignolet (Oswald)	Algorithmic Challenges in Wireless Networks: Interference, Energy, and Incentives	James Aspnes, Yale; Subhash Suri, UCSB	March 2009
8*	Thomas Locher	Foundations of Aggregation and Synchronization in Distributed Systems	Nancy Lynch, MIT; Christian Scheideler, TU Munich; Jennifer Welch, Texas A&M	February 2009
7	Pascal von Rickenbach	Energy-Efficient Data Gathering in Sensor Networks	Magnús Halldórsson, Reykjavik; Bhaskar Krishnamachari, USC	May 2008
6	Stefan Schmid	Dynamics and Cooperation: Algorithmic Challenges in Peerto-Peer Computing	Boaz Patt-Shamir, Tel Aviv; Tim Roughgarden, Stanford	April 2008
5	Regina O'Dell (Bischoff)	Understanding Ad Hoc Networks from Mobility to Geometry	Rajmohan Rajaraman, Northeastern; Dorothea Wagner, Karlsruhe KIT	September 2006

4	Keno Albrecht	Mastering Spam – A Multifaceted	Gordon Cormack, Waterloo;	September
		Approach with the Spamato	Christof Fetzer, TU Dresden	2006
		Spam Filter System		
3*	Thomas	Locality, Scheduling, and	Christos Papadimitriou,	July 2006
	Moscibroda	Selfishness: Algorithmic	Berkeley; David Peleg,	
		Foundations of Highly	Weizmann Institute; James	
		Decentralized Networks	Aspnes, Yale	
2*	Fabian Kuhn	The Price of Locality: Exploring	Nathan Linial, Hebrew	August
		the Complexity of Distributed	University; Friedhelm Meyer	2005
		Coordination Primitives	auf der Heide, Paderborn;	
			Maurice Herlihy, Brown	
			University	
1	Aaron	Networking Unleashed: Routing	Matthias Grossglauser, EPFL;	April 2005
	Zollinger	and Topology Control in Ad Hoc	Charles Perkins, Nokia	
		and Sensor Networks	Research	

- The theses marked with an asterisk (*) have been awarded with an ETH medal.
- A bit more than half of the PhD graduates joined a university or research lab after their PhD, e.g.,
 IBM Research, Microsoft Research, ABB Research, MIT, Hebrew University, TU Munich, IST Austria,
 CSIRO Australia, Freiburg, Aalborg, Aalto.
- About 10 former PhD students are still in academia, as a professor.
- Some PhD graduates founded a startup company.
- And some PhD graduates joined a company, in particular Google.
- Only former member on the postdoc level: Yuval Emek, ETH Fellow and Postdoc, 2010-2013, now Professor at the Technion.
- Some former members are now professors, in particular Olga Goussevskaia (University of Minas Gerais), Fabian Kuhn (University of Freiburg), Thomas Moscibroda (Tsinghua University), Stefan Schmid (University Vienna), Christoph Lenzen (University Saarbrücken & MPI).
- Supervising numerous student projects: On average our group supervises more than a dozen Masters, Diploma, or Semester theses each year. For details, please visit www.disco.ethz.ch/theses.html.

Teaching

Hands-On Deep Learning deep learning, natural language processing, graph neural networks, computer vision Code Jam Lab Undergraduate 3rd year practical lab for EE students, competitive programming with Google Code Jam Undergraduate 3rd year practical lab for EE students, competitive programming with Google Code Jam Undergraduate 3rd year elective course for EE students, teaching computation: algorithms, complexity, cryptography, databases, machine learning, neural networks, computability Deep Neural Networks Graduate-level research seminar, with different topics in the area 2019 Computer Systems Undergraduate 3rd year practical lab for EE students, focusing on since 2018 Computer Engineering Undergraduate 3rd year practical lab for EE students, focusing on years taught alone, since 2015 taught with Lothar Thiele and Laurent Vanbever Principles of Distributed Advanced graduate level course; most years taught alone, in earlier years with Peter Widmayer, Christian Cachin, or Fabian Kuhn, in later years taught with Mohsen Ghaffari; this course is taught at dozens of other universities throughout the world Distributed Systems Lab Practical graduate-level group project; in collaboration with various other professors Distributed Computing Graduate-level research seminar, with different topics 2003 Distributed Computing Graduate-level group project; in collaboration with various other professors Distributed Systems Undergraduate 2rd year basic course for EE students, focusing on Operating Systems (Networks, Storage, Computation). For CSE 2019 students this course was known as Operating Systems and Networks Distributed Systems Undergraduate 3rd year operating Systems and Networks Distributed Systems Undergraduate 2rd year basic course for ES students, focusing on Operating Systems and Networks Undergraduate 2rd year basic course for ES students, focusing on 2016-0010 and			
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	Mobile Computing	Advanced graduate level course	
Widmayer 2005	Web Algorithms	Advanced graduate level course; taught together with Peter Widmayer	2001- 2005

- The web sites of all courses can be found at www.disco.ethz.ch/courses.html
- Additional teaching at various conferences and summer schools (see Selected Talks below)

Research Community Service

Name	Full Name	Year(s)	Directing Role
Dagstuhl Seminar	Computational Social Dynamics	2022	Co-Organizer
ICDCN	International Conference on Distributed Computing and Networking	2022, 2012	General Co-Chair
CCS DeFi	ACM CCS Workshop on Decentralized Finance and Security	2021	Workshop Co- Chair
IPSN	International Conference on Information Processing in Sensor Networks	2021	PC Co-Chair
Needham Award	EuroSys Roger Needham Award Review Committee	2019	Committee Chair
CVC	Crypto Valley Conference on Blockchain Technology	2019	PC Co-Chair
AFT	ACM Conference on Advances in Financial Technologies	2019	Local Chair
EATCS Fellows Committee	European Association for Theoretical Computer Science Fellows Selection Committee	2018	Committee Chair
SSS	International Symposium on Stabilization, Safety, and Security of Distributed Systems	2016, 2011	Track Chair
ALGOSENSORS	International Workshop on Algorithmic Aspects of Wireless Sensor Networks	2015	PC Chair
SOFSEM	International Conference on Current Trends in Theory and Practice of Computer Science	2015	PC Co-Chair, Foundations Track
P2P	IEEE International Conference on Peer-to-Peer Computing	2014	PC Co-Chair
ICALP	International Colloquium on Automata, Languages and Programming	2012	PC Co-Chair, Track C
NCCR MICS	Annual Workshop on Mobile Information and Communication Systems	2011	Co-Organizer

PODC	ACM Symposium on Principles of Distributed Computing	2010	Local Chair
Dagstuhl Seminar	Flexible Network Design	2010	Co-Organizer
ICDCN	International Conference on Distributed Computing and Networking	2009	PC Co-Chair
Dijkstra Prize	Edsger W. Dijkstra Prize in Distributed Computing	2007	Committee Chair
PODC	ACM Symposium on Principles of Distributed Computing	2007	PC Chair
IPTPS	International Workshop on Peer-to-Peer Systems	2007	PC Co-Chair and Local Co-Chair
Dagstuhl Seminar	Seminar on Geometry in Sensor Networks	2007	Co-Organizer
OPODIS	International Conference on Principles of Distributed Systems	2005	PC Co-Chair
MobiHoc	ACM International Symposium on Mobile Ad Hoc Networking and Computing	2005	PC Co-Chair
Dagstuhl Seminar	Seminar on Algorithms for Sensor and Ad Hoc Networks	2005	Co-Organizer
Dynamo	Workshop on Dynamic Networks	2005	Organizer
NCCR MICS	Annual Workshop on Mobile Information and Communication Systems	2004	Co-Organizer
NCCR MICS	Summer School Mobile Information and Communication Systems	2004	Co-Organizer
SIROCCO	International Colloquium on Structural Information and Communication Complexity	1997	Local Chair

Name	Full Name	Year(s)	Role
JCSS	Journal of Computer and System Sciences	2022 –	Editorial Board
IPSN	International Conference on Information Processing in Sensor Networks	2021 –	Steering Committee Member
WSDM	ACM International Conference on Web Search and Data Mining	2024, 2023	PC Member
ECML-PKDD	European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases	2023	PC Member
FC	Financial Cryptography and Data Security	2023, 2022	PC Member

DSN	Annual IEEE/IFIP International Conference on Dependable Systems and Networks	2023	PC Member
MobiCom	ACM International Conference on Mobile Computing and Networking	2023, 2005, 2004, 2003	PC Member
PODC	ACM Symposium on Principles of Distributed Computing	2023, 2012, 2004, 2002	PC Member
OSDI	USENIX Symposium on Operating Systems Design and Implementation	2023, 2018	PC Member
EuroSys	European Conference on Computer Systems	2022, 2020, 2018, 2017	PC Member
www	ACM Web Conference	2022	PC Member
AACL-IJCNLP	International Joint Conference on Natural Language Processing	2022	PC Member
AFT	ACM Conference on Advances in Financial Technologies	2022, 2021, 2020, 2019	PC Member
BioNLP	ACL SIGBIOMED Workshop BioNLP	2022	PC Member
ConsensusDay	ACM CCS 2022 Workshop on Developments in Consensus	2022	PC Member
DLT Banking	Distributed Ledger Technology in Banking Conference	2022	PC Member
ICDCS	IEEE International Conference on Distributed Computing Systems	2022, 2010, 2005	PC Member
CCS	ACM Conference on Computer and Communications Security	2021	PC Member
ATC	USENIX Annual Technical Conference	2021	PC Member
S&B	IEEE Security and Privacy on the Blockchain	2020, 2019	PC Member
Needham Award	EuroSys Roger Needham Award Review Committee	2020, 2018	Committee Member
SIROCCO	Colloquium on Structural Information and Communication Complexity	2020, 2015, 2014, 2006	PC Member
SRDS	International Symposium on Reliable Distributed Systems	2019	PC Member
Tokenomics	International Conference on Blockchain Economics, Security and Protocols	2019	PC Member
SenSys	ACM Conference on Embedded Networked Sensor Systems	2019, 2018	PC Member
SIFF	Swiss International FinTech, InsurTech & Blockchain Conference	2018	PC Member
BITCOIN	Workshop on Bitcoin Research	2018, 2015	PC Member

DISC	International Symposium on Distributed Computing	2018, 2008, 2000	PC Member
ICALP	International Colloquium on Automata, Languages and Programming	2018, 2015, 2011, 2009	PC Member
CVC	Crypto Valley Conference on Blockchain Technology	2018	PC Member
SOCCA	Symposium on Cryptocurrency Analysis	2018	PC Member
CBT	Cryptocurrencies and Blockchain Technology	2018, 2017	PC Member
Dijkstra Prize	Edsger W. Dijkstra Prize in Distributed Computing	2017, 2012	Committee Member
SPAA	ACM Symposium on Parallelism in Algorithms and Architectures	2017, 2014, 2011, 2006	PC Member
SIGMOBILE Test of Time	ACM SIGMOBILE Test of Time Paper Awards	2017	Committee Member
SODA	ACM-SIAM Symposium on Discrete Algorithms	2017	PC Member
EATCS Fellows	European Association for Theoretical	2016, 2015,	Committee
Committee	Computer Science Fellows Selection Committee	2014	Member
PODC	Principles of Distributed Computing Doctoral	2016	Committee
Dissertation Award	Dissertation Award		Member
WRAWN	Workshop on Realistic models for Algorithms	2011 – 2016	Steering
	in Wireless Networks		Committee
			Member
IPSN	International Conference on Information Processing in Sensor Networks	2016, 2011, 2010	PC Member
WALCOM	International Workshop on Algorithms and Computation	2016	PC Member
EATCS	European Association for Theoretical Computer Science	2011 – 2015	Council Member
CIAC	International Conference on Algorithms and Complexity	2015	PC Member
TAPAS	Theory and Practice of Algorithms in (Computer) Systems	2010 – 2014	Steering Committee Member
BDA	Workshop on Biological Distributed Algorithms	2013	PC Member

ICDCN	International Conference on Distributed Computing and Networking	2010 – 2011	Advisory Committee Member
FOWANC	ACM International Workshop on Foundations of Wireless Ad Hoc and Sensor Networking and Computing	2010 – 2011	Steering Committee Member
CoRoNet	International ACM Sigmobile Workshop on Cognitive Radio Networks	2010	PC Member
BuildSys	International ACM Workshop on Embedded Sensing Systems For Energy-Efficiency In Buildings	2010	PC Member
MobiHoc	ACM International Symposium on Mobile Ad Hoc Networking and Computing	2010, 2008, 2006, 2004	PC Member
IPIN	International Conference on Indoor Positioning and Indoor Navigation	2010	PC Member
IZS	International Zurich Seminar on Communications	2010, 2008, 2006	PC Member
ICDCN	International Conference on Distributed Computing and Networking	2010, 2006	PC Member
SocialCom	IEEE International Conference on Social Computing	2010	PC Member
PODC	ACM Symposium on Principles of Distributed Computing	2007 – 2009	Steering Committee Member
P2P	IEEE International Conference on Peer-to-Peer Computing	2009	PC Member
IPDPS	IEEE International Parallel and Distributed Processing Symposium	2009	PC Member
INFOCOM	Conference of the IEEE Communications Society	2009, 2008	PC Area Chair
IPTPS	International Workshop on Peer-to-Peer Systems	2009, 2004	PC Member
FOWANC	ACM International Workshop on Foundations of Wireless Ad Hoc and Sensor Networking and Computing	2008	PC Member
DISC	International Symposium on Distributed Computing	2004 – 2006	Steering Committee Member

MSN	International Conference on Mobile Ad-hoc and Sensor Networks	2006	PC Member
OPODIS	International Conference on Principles of Distributed Systems	2006	PC Member
SSS	International Symposium on Stabilization, Safety, and Security of Distributed Systems	2006	PC Member
INFOCOM	Conference of the IEEE Communications Society	2006, 2005	PC Member
PWN	International Workshop on Pervasive Wireless Networking	2006	PC Member
HiPC	International Conference on High Performance Computing	2005	PC Member
MASS	IEEE International Conference on Mobile Adhoc and Sensor Systems	2004	PC Member
FOMC	Joint Workshop on Foundations of Mobile Computing	2003	PC Member

• In addition, reviewer of hundreds of journal and additional conference papers.

Ph.D. Theses Examination Board

#	Student	Thesis Title	Advisor	Place	Year
35	Manvir Schneider	Vote Delegation and Staking on Blockchains	Hans Gersbach	ETH Zurich	2023
34	Lucianna Kiffer	Security, Use and Scalability of Blockchain Systems	Alan Mislove, Rajmohan Rajaraman	Northeastern	2022
33	Sebastian Henningsen	Empirical and Analytical Perspectives on the Robustness of Blockchain-related Peer-to- Peer Networks	Björn Scheuermann	HU Berlin	2022
32	Ahad N. Zehmakan	On the Spread of Information Through Graphs	Bernd Gärtner, Emo Welzl	ETH Zurich	2019
31	Fabien Dufoulon	Overcoming Interference in the Beeping Communication Model	Janna Burman, Joffroy Beauquier	Paris Saclay	2019

30	Marjorie Bournat	Graceful Degradation and Speculation for Robots in Highly Dynamic Environments	Yoann Dieudonné, Swan Dubois, Franck Petit	Paris Sorbonne	2019
29	Lucas Boczkowski	Searching and Broadcasting in Stochastic Environments, a Biological Perspective	Amos Korman	Paris 7	2018
28	André Naz	Distributed Algorithms for Large- scale Robotic Systems: Centrality, Synchro-nization and Self- reconfiguration	Julien Bourgeois, Benoit Piranda	UFC CNRS	2017
27	Arthur Gervais	On the Security, Performance and Privacy of Proof of Work Blockchains	Srdjan Capkun	ETH Zurich	2016
26	Joel Rybicki	Counting, Clocking, and Coloring: Fault-tolerant Distributed Coordination	Jukka Suomela	Aalto	2016
25	Yuezhou Lv	Incentive and Influence Networks	Thomas Moscibroda	Tsinghua	2016
24	Hsin-Hao Su	Algorithms for Fundamental Problems in Computer Networks	Seth Pettie	Michigan	2015
23	Giuseppe Di Luna	On Deterministic Counting in Anonymous Dynamic Networks	Roberto Baldoni	La Sapienza Rome	2015
22	Moti Medina	Online Algorithms in Computer Networks	Guy Even, Boaz Patt-Shamir	Tel Aviv	2014
21	Dimitra Gkorou	Exploiting Graph Properties for Decentralized Reputation Systems	Dick Epema, Johan Pouwelse	TU Delft	2014
20	Liron Levin	Combinatorial Algorithms in Ad Hoc Networks	Michael Segal	Ben Gurion	2014
19	Markus Völker	Algorithmic Aspects of Communication and Localization in Wireless Sensor Networks	Dorothea Wagner	KIT Karlsruhe	2012
18	Alexander Fanghänel	Scheduling in Wireless Networks with Oblivious Power Assignments	Berthold Vöcking	RWTH Aachen	2010
17	Carlo Nocentini	Dynamic Networks: Algorithms, Simulation, and Experiments	Pierluigi Crescenzi	Florence	2010

16	Jukka Suomela	Optimisation Problems in Wireless Sensor Networks: Local Algorithms and Local Graphs	Patrik Floreen	Helsinki	2009
15	Patrick Stuedi	From Theory to Practice: Fundamental Properties and Services of Mobile Ad Hoc Networks	Gustavo Alonso	ETH Zurich	2008
14	Till Bay	Hosting Distributed Software Projects: Concepts, Framework and the Origo Experience	Bertrand Meyer	ETH Zurich	2008
13	Alexander Kroeller	Algorithms for Topology-Aware Sensor Networks, Advisor	Sandor Fekete	TU Braun- schweig	2007
12	Katharina Lehmann	On Local Behavior and Global Structures in the Evolution of Complex Networks	Michael Kaufmann	Tubingen	2007
11	Luzius Anderegg	Mechanisms for Efficient Selfish Routing and Positioning in Ad Hoc Networks	Peter Widmayer	ETH Zurich	2006
10	Tim Nieberg	Independent and Dominating Sets in Wireless Communication Networks	Johann Hurink	Twente	2006
9	Hannes Stratil	Advantages and Limitations of Position-based Communication in Wireless Ad-hoc Networks	Ulrich Schmid	TU Vienna	2006
8	Lujun Jia	Communication Structures for Ad Hoc Networks	Rajmohan Rajaraman	Northeastern	2005
7	Marc Heissenbüttel	Routing and Broadcasting in Ad- Hoc Networks	Torsten Braun	Bern	2005
6	Bernd Thallner	Topology Control for Fault- Tolerant Communication in Wireless Ad Hoc Networks	Ulrich Schmid	TU Vienna	2005
5	Phuong Ha	Reactive Shared Objects for Interprocess Synchronization	Philippas Tsigas	Chalmers	2004
4	Reto Strobl	Distributed Cryptographic Protocols in Asynchronous Networks with Universal Computability	Ueli Maurer	ETH Zurich	2004

3	Razvan	Efficient Decentralized	Martin Vetterli	EPFL	2004
	Cristescu	Communications in Sensor			
		Networks			
2	Roger Karrer	Design of Topology-Aware	Thomas Gross	ETH Zurich	2002
		Networked Applications			
1	Konrad	Distributed Data and Resources:	Peter Widmayer	ETH Zurich	2002
	Schlude	Models, Tractability, and			
		Complexity			

Other Service

- Many professor search and grant approval committees, for instance in Finland, France, Germany,
 Netherlands, Ireland, Singapore, Sweden, and of course in Switzerland.
- In addition, referee for more than two dozen professor position/tenure cases, for candidates in the USA, Europe, Israel, and Canada.
- At ETH Zurich, involvement in more than a dozen professor search committees, both in the Computer Science and the Information Technology and Electrical Engineering (ITET) department.
- Head of the Computer Engineering and Networks Laboratory, about half the time since 2008.
- Co-founder of the Institute for Pervasive Computing, Department of Computer Science, ETH Zurich.
- Member of the Commission for Studies ("Unterrichtskommission") in the Department of Information Technology and Electrical Engineering at ETH Zurich, 2011-2018. Also in the Department of Computer Science, 2002-2004.
- Chair of the Commission of Computing Projects (KIM) at the ITET Department of ETH Zurich, 2009-2012.
- Member of the Admission Board for Graduate Studies at the ITET Department, 2006-2018.
- Member of the Information and Communications Technology (ICT) Commission of ETH, starting 2019.
- Representing the ITET Department to prospective students, 2004-2010.
- Co-Organizer of the ITET Keynote lecture series, in 2005.
- Industry courses, such as "Peer-to-Peer Computing" and "Wireless Networks and Mobile Computing", each held several times.
- Coach of the Swiss Olympic Team in Informatics, 1997-1999.
- Co-Organizer of the Swiss Championship in Informatics, 1996-1998.

Third Party Money

Funding Agency	Project Name	Contribution	Collaborators	Years
Huawei	Huawei Donation to Study Distributed Systems	200k	-	2020- 2022
Ripple	Ripple University Blockchain Research Initiative	1M	Srdjan Capkun, Ueli Maurer	2019- 2021
ETH/Risk	Money Creation	300k	Hans Gersbach	2018- 2020
Microsoft	Swiss JRC: Software Defined Networks: Algorithms and Mechanisms	2 PhD 40%, CHF 250k	-	2014- 2018
SNF	NCCR Mobile Information and Communication (MICS), Customizing the world of pervasive data	2 PhD 50%, CHF 320k	Gustavo Alonso	2010- 2013
ЕТН/ТН	NCCR Mobile Information and Communication (MICS), Customizing Project, Matching Funds	2 PhD 25%, CHF 160k	Gustavo Alonso	2010- 2013
SNF	MC2: Fundamentals of Multi- Core Computing	2 PhD 50%, CHF 250k	-	2009- 2012
SNF	P2P Streaming of Scalable Content for PCs and Consumer Electronics	CHF 300k	StreamForge	2009- 2011
Hasler Stiftung	3GP2P: 3rd Generation Peer-to- Peer Systems	2 PhD 50%, CHF 250k	-	2006- 2009
BBT/KTI	Energy Efficient Mesh Control for Wireless Sensor Networks	1 PhD, CHF 80k	Shockfish SA	2006- 2007
ЕТН/ТН	NCCR Mobile Information and Communication (MICS), Algorithms Project, Matching Funds	2 PhD 25%, CHF 160k	Peter Widmayer	2005- 2009
SNF	NCCR Mobile Information and Communication (MICS), Algorithms for Ad hoc and Sensor Networks	2 PhD 50%, CHF 320k	Peter Widmayer	2005- 2009
SNF	Decentralized Internetworking	2 PhD 50%, CHF 240k	-	2005- 2008

SNF	COST Action 295 DYNAMO: Dynamic Networks	1 PhD 50%, CHF 120k	Peter Widmayer	2005- 2009
EU	Elected vice chair of the European COST Action 295 DYNAMO	Travel and cooperation grants	-	2005- 2009
NCCR MICS	Mobile Information and Communication Systems	Summer internship positions, about CHF 100k	-	2002- 2008
Intel	Architectures for Mobile Information and Communication Systems	\$60k cash, \$100k equipment	Friedemann Mattern, Gustavo Alonso	2002- 2003
ETH/TH	Efficient Algorithms for Selfish Agents	1 PhD 50%, CHF 120k	Peter Widmayer	2002- 2005
Hasler Stiftung	Fault-Tolerant and Efficient Peer- to-Peer Systems	2 PhD 50%, CHF 240k	-	2002- 2005
SNF	Highly Available Distributed Data Structures	1 PhD 50%, CHF 80k	Peter Widmayer, Rachid Guerraoui	2002- 2005
ETH/TH	NCCR Mobile Information and Communication (MICS) project IP9 Matching Funds	2 PhD 25%, CHF 160k	Lothar Thiele, Friedemann Mattern	2001- 2005
SNF	NCCR Mobile Information and Communication (MICS) project IP9	2 PhD 50%, CHF 320k	Lothar Thiele, Friedemann Mattern, Andre Schiper	2001- 2005

Experience & Education

Time	Position	Affiliation
8/2008 –	Full Professor	Distributed Computing Group, Computer Engineering and Networks
present		Laboratory, Department of Information Technology and Electrical
		Engineering, ETH Zurich, Switzerland
7/2012 –	Sabbatical	Systems and Networking Group,
8/2013		Microsoft Research, Redmond, WA
7/2004 –	Associate	Distributed Computing Group, Computer Engineering and Networks
7/2008	Professor	Laboratory, Department of Information Technology and Electrical
		Engineering, ETH Zurich, Switzerland
10/2006 –	Sabbatical	Macquarie University, Sydney, Australia
3/2007		

10/2001 – 6/2004	Assistant Professor	Distributed Computing Group, Institute for Pervasive Computing, Department of Computer Science, ETH Zurich, Switzerland
4/2000 – 10/2001	Post-Doc Researcher	Systems and Networking Group, Microsoft Research, Redmond, WA
4/1999 – 4/2000	Post-Doc Researcher	Computer Science Department, Brown University, Providence, RI
1995 – 1999	Ph.D. in Computer Science	Research and Teaching Assistant, Computer Science Department, ETH Zurich, Switzerland. (Advisor Peter Widmayer, Co-Examiner Maurice Herlihy, Additional Expert Nir Shavit)
1990 – 1995	Studies in Computer Science	ETH Zurich, Switzerland, with Minor in Operations Research

Personal

- Swiss citizen, born November 17, 1969
- Married, with three children (born 2002, 2005, and 2009)
- Mother tongue German; fluent in English; basic French

References

References are available on request.

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Publications

- Some personally valued publications are in **bold**.
- Our research group often follows the convention of having alphabetically ordered authors.
- More than 30,000 citations, high h-index.
- For details please visit scholar.google.com, and search for "Wattenhofer".

2023

- 1. Liyi Zhou, Xihan Xiong, Jens Ernstberger, Stefanos Chaliasos, Zhipeng Wang, Ye Wang, Kaihua Qin, Roger Wattenhofer, Dawn Song and Arthur Gervais. SoK: Decentralized Finance (DeFi) Attacks. Proceedings of the 44th IEEE Symposium on Security and Privacy (S&P), May 2023.
- 2. Florian Grötschla, Joël Mathys and Roger Wattenhofer.Learning Graph Algorithms With Recurrent Graph Neural Networks. Workshop on Graphs and more Complex structures for Learning and Reasoning (GCLR@AAAI), Washington DC, February 2023.

- 3. Kilian Konstantin Haefeli, Karolis Martinkus, Nathanaël Perraudin and Roger Wattenhofer. Diffusion Models for Graphs Benefit From Discrete State Spaces. First Learning on Graphs Conference (LoG 2022), Virtual, December 2022.
- 4. Peter Belcák and Roger Wattenhofer. Neural Combinatorial Logic Circuit Synthesis from Input-Output Examples. Proceedings of the 2nd Workshop on Math-AI (MATH-AI@NeurIPS), New Orleans, Louisiana, December 2022.
- 5. Ard Kastrati, Martyna Beata Plomecka, Joël Küchler, Nicolas Langer and Roger Wattenhofer. Electrode Clustering and Bandpass Analysis of EEG Data for Gaze Estimation. Proceedings of the Gaze Meets Machine Learning Workshop (GMML@NeurIPS), New Orleans, Louisiana, December 2022.
- 6. Peter Belcák, David Hofer and Roger Wattenhofer. A Neural Model for Regular Grammar Induction. Proceedings of the 21st IEEE International Conference on Machine Learning and Applications (ICMLA), Nassau, Bahamas, December 2022.
- 7. Peter Belcák and Roger Wattenhofer. Periodic Extrapolative Generalisation in Neural Networks. Proceedings of the IEEE Symposium on Deep Learning (IEEE DL), Singapore, December 2022.

- 8. Ye Wang, Zhicong Lu and Roger Wattenhofer. Gay Dating on Non-dating Platforms: The Case of Online Dating Activities of Gay Men on a Q&A Platform. Proceedings of the ACM on Human-Computer Interaction (CSCW), November 2022.
- 9. Jakub Sliwinski, Yann Vonlanthen and Roger Wattenhofer. Consensus on Demand. Proceedings of the 24th International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS), Clermont-Ferrand, France, November 2022.
- 10. Jakub Sliwinski and Roger Wattenhofer. Better Incentives for Proof-of-Work. Proceedings of the 24th International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS), Clermont-Ferrand, France, November 2022. (Best student paper award)
- 11. Peter Belcák, Ard Kastrati, Flavio Schenker and Roger Wattenhofer. FACT: Learning Governing Abstractions Behind Integer Sequences. Proceedings of the 36th Conference on Neural Information Processing Systems (NeurIPS), New Orleans, Louisiana, November 2022.
- 12. Joël Mathys, Robin Fritsch and Roger Wattenhofer. Decentralized Graph Processing for Reachability Queries. Proceedings of the 18th International Conference on Advanced Data Mining and Applications (ADMA), Brisbane, Australia, November 2022.
- 13. Peter Belcák and Roger Wattenhofer. Deterministic Graph-Walking Program Mining. Proceedings of the 18th International Conference on Advanced Data Mining and Applications (ADMA), Brisbane, Australia, November 2022.
- 14. Lioba Heimbach, Eric Schertenleib and Roger Wattenhofer. Exploring Price Accuracy on Uniswap V3 in Times of Distress. Proceedings of the 2nd ACM Workshop on Decentralized Finance and Security (DeFi), Los Angeles, California, November 2022.
- 15. Max Mathys, Roland Schmid, Jakub Sliwinski and Roger Wattenhofer. A Limitlessly Scalable Transaction System. Proceedigns of the 6th International Workshop on Cryptocurrencies and Blockchain Technology (CBT), Copenhagen, Denmark, September 2022.
- 16. Robin Fritsch, Samuel Käser and Roger Wattenhofer. The Economics of Automated Market Makers. Proceedings of the 4th ACM Conference on Advances in Financial Technologies (AFT), Cambridge, Massachusetts, September 2022.
- 17. Lioba Heimbach, Eric Schertenleib and Roger Wattenhofer. Risks and Returns of Uniswap V3 Liquidity Providers. Proceedings of the 4th ACM Conference on Advances in Financial Technologies (AFT), Cambridge, Massachusetts, September 2022.
- 18. Lioba Heimbach and Roger Wattenhofer. SoK: Preventing Transaction Reordering Manipulations in Decentralized Finance. Proceedings of the 4th ACM Conference on Advances in Financial Technologies (AFT), Cambridge, Massachusetts, USA, September 2022.
- 19. Ye Wang, Zhicong Lu, Peng Cao, Jingyi Chu, Haonan Wang and Roger Wattenhofer. How Live Streaming Changes Shopping Decisions in E-commerce: A Study of Live Streaming Commerce. In Computer Supported Cooperative Work (CSCW), The Journal of Collaborative Computing and Work Practices, August 2022.
- 20. Zhao Meng, Yihan Dong, Mrinmaya Sachan and Roger Wattenhofer. Self-Supervised Contrastive Learning with Adversarial Perturbations for Defending Word Substitution-based Attacks. Proceedings of the Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL), Seattle, July 2022.

- 21. Jeremia Geiger, Karolis Martinkus, Oliver Richter and Roger Wattenhofer. Automating Rigid Origami Design. ICML Workshop on Machine Learning for Computational Design (MLCD), Baltimore, Maryland, July 2022.
- 22. Lukas Wolf, Ard Kastrati, Martyna Plomecka, Alexander Veicht, Dustin Klebe, Jie-Ming Li, Roger Wattenhofer and Nicolas Langer. A Deep Learning Approach for the Segmentation of Electroencephalography Data in Eye Tracking Applications. Proceedings of the 39th International Conference on Machine Learning (ICML), Baltimore, Maryland, USA, July 2022.
- 23. Pál András Papp and Roger Wattenhofer. A Theoretical Comparison of Graph Neural Network Extensions. Proceedings of the 39th International Conference on Machine Learning (ICML), Baltimore, Maryland, USA, July 2022.
- 24. Karolis Martinkus, Andreas Loukas, Nathanaël Perraudin and Roger Wattenhofer. SPECTRE: Spectral Conditioning Overcomes the Expressivity Limits of One-shot Graph Generators. Proceedings of the 39th International Conference on Machine Learning (ICML), Baltimore, Maryland, USA, July 2022.
- 25. Diana Ghinea, Chen-Da Liu-Zhang and Roger Wattenhofer. Optimal Synchronous Approximate Agreement with Asynchronous Fallback. Proceedings of the ACM Symposium on Principles of Distributed Computing (PODC), Salerno, Italy, July 2022.
- 26. Andrei Constantinescu and Roger Wattenhofer. Voting in Two-Crossing Elections. Proceedings of the 31st International Joint Conference on Artificial Intelligence (IJCAI-ECAI), Vienna, Austria, July 2022.
- 27. Lioba Heimbach and Roger Wattenhofer. Eliminating Sandwich Attacks with the Help of Game Theory. Proceedings of the ACM Asia Conference on Computer and Communications Security (ASIA CCS), Nagasaki, Japan, June 2022.
- 28. Guirong Fu*, Zhao Meng*, Zhen Han*, Zifeng Ding, Yunpu Ma, Matthias Schubert, Volker Tresp and Roger Wattenhofer. TempCaps: A Capsule Network-based Embedding Model for Temporal Knowledge Graph Completion. Proceedings of the Sixth Workshop on Structured Prediction for NLP, Virtual, May 2022.
- 29. Yue Ding, Karolis Martinkus, Damian Pascual, Simon Clematide and Roger Wattenhofer. On Isotropy Calibration of Transformers. Proceedings of the 3rd Workshop on Insights from Negative Results in NLP (Insights@ACL), Dublin, Ireland, May 2022.
- 30. Ye Wang, Patrick Züst, Yaxing Yao, Zhicong Lu and Roger Wattenhofer. Impact and User Perception of Sandwich Attacks in the DeFi Ecosystem. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI), New Orleans, Louisiana, May 2022.
- 31. Torgin Mackinga, Tejaswi Nadahalli and Roger Wattenhofer. TWAP Oracle Attacks: Easier Done than Said? Proceedings of the 4th IEEE International Conference on Blockchain and Cryptocurrency (ICBC), Virtual Conference, May 2022.
- 32. Tejaswi Nadahalli and Majid Khabbazian and Roger Wattenhofer. Grief-free Atomic Swaps. Proceedings of the 4th IEEE International Conference on Blockchain and Cryptocurrency (ICBC), Virtual Conference, May 2022.
- 33. Robin Fritsch and Roger Wattenhofer. The Price of Majority Support. Proceedings of the 21st International Conference on Autonomous Agents and Multiagent Systems (AAMAS), Online, May 2022.

- 34. Jan Arvid Berg, Robin Fritsch, Lioba Heimbach and Roger Wattenhofer. An Empirical Study of Market Inefficiencies in Uniswap and SushiSwap. Proceedings of the 2nd Workshop on Decentralized Finance (DeFi), Grenada, May 2022.
- 35. Sébastien Foucher, Damian Pascual, Oliver Richter and Roger Wattenhofer. Word2Course: Creating Interactive Courses from as Little as a Keyword. Proceedings of the International Conference on Computer Supported Education (CSEDU), Virtual, April 2022. (Best student paper award)
- 36. Ye Wang, Yan Chen, Haotian Wu, Liyi Zhou and Shuiguang Deng and Roger Wattenhofer. Cyclic Arbitrage in Decentralized Exchanges. Proceedings of the The Web Conference 2022 (WWW), Lyon, France, April 2022.
- 37. Alexander Canals, Pascal Josephy, Simon Tanner and Roger Wattenhofer. Robust Indoor Localization with ADS-B. Proceedings of the 27th Annual International Conference On Mobile Computing And Networking (MobiCom), New Orleans, Louisiana, USA, January 2022.

- 38. Yuang Cheng, Yue Ding, Sebastien Foucher, Damián Pascual, Oliver Richter, Martin Volk and Roger Wattenhofer. WikiFlash: Generating Flashcards from Wikipedia Articles. Proceedings of the 28th International Conference on Neural Information Processing, virtual, December 2021.
- 39. Pál András Papp, Karolis Martinkus, Lukas Faber and Roger Wattenhofer. DropGNN: Random Dropouts Increase the Expressiveness of Graph Neural Networks (Spotlight). Proceedings of the 35th Conference on Neural Information Processing Systems (NeurIPS), Virtual, December 2021.
- 40. Ard Kastrati, Martyna Beata Plomecka, Damian Pascual, Lukas Wolf, Victor Gillioz, Roger Wattenhofer and Nicolas Langer. EEGEyeNet: a Simultaneous Electroencephalography and Eye-tracking Dataset and Benchmark for Eye Movement Prediction. Proceedings of the 35th Conference on Neural Information Processing Systems (NeurIPS), Online, December 2021.
- 41. Pankaj Khanchandani, Jan Schaeppi, Ye Wang and Roger Wattenhofer. On Consensus Number 1 Objects. Proceedings of the 27th IEEE International Conference on Parallel and Distributed Systems (ICPADS), Beijing, China, December 2021.
- 42. Pál András Papp and Roger Wattenhofer. Default Ambiguity: Finding the Best Solution to the Clearing Problem. Proceedings of the 17th Conference on Web and Internet Economics (WINE), Potsdam, Germany, December 2021.
- 43. Jakub Sliwinski and Roger Wattenhofer. Asynchronous Proof-of-Stake. Proceedings of the 23rd International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS), November 2021.
- 44. Pankaj Khanchandani, Oliver Richter, Lukas Rusch and Roger Wattenhofer. Learning Algorithms with Self-Play: A NewApproach to the Distributed Directory Problem. Proceedings of the 33rd International Conference on Tools with Artificial Intelligence (ICTAI), virtual, November 2021.
- 45. Damian Pascual, Béni Egressy, Clara Meister, Ryan Cotterell and Roger Wattenhofer. A Plug-and-Play Method for Controlled Text Generation. Findings of the Conference on Empirical Methods in Natural Language Processing (EMNLP) 2021, Punta Cana, Dominican Republic, November 2021.

- 46. Zai Shi, Zhao Meng, Yiran Xing, Yunpu Ma and Roger Wattenhofer. 3D-RETR: End-to-End Single and Multi-View 3D Reconstruction with Transformers. Proceedings of the 32nd British Machine Vision Conference (BMVC), November 2021.
- 47. Lioba Heimbach, Ye Wang and Roger Wattenhofer. Behavior of Liquidity Providers in Decentralized Exchanges. Proceedings of the Crypto Valley Conference on Blockchain Technology (CVCBT), Rotkreuz, Switzerland, October 2021.
- 48. Johannes Ackermann, Oliver Richter and Roger Wattenhofer. Unsupervised Task Clustering for Multi-Task Reinforcement Learning. Proceedings of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD), Virtual, September 2021.
- 49. Pál András Papp and Roger Wattenhofer. Stabilization Bounds for Influence Propagation from a Random Initial State. Proceedings of the 46th International Symposium on Mathematical Foundations of Computer Science (MFCS), Tallinn, Estonia, August 2021.
- 50. Yiran Xing, Zai Shi, Zhao Meng, Gerhard Lakemeyer and Yunpu Ma and Roger Wattenhofer. KM-BART: Knowledge Enhanced Multimodal BART for Visual Commonsense Generation. Proceedings of the 59th Annual Meeting of the Association for Computational Linguistics (ACL), Online, August 2021.
- 51. Pál András Papp and Roger Wattenhofer. Debt Swapping for Risk Mitigation in Financial Networks. Proceedings of the 22nd ACM Conference on Economics and Computation (EC), Budapest, Hungary, July 2021.
- 52. Sumu Zhao, Damian Pascual, Gino Brunner and Roger Wattenhofer. Of Non-Linearity and Commutativity in BERT. Proceedings of the International Joint Conference on Neural Networks (IJCNN), Virtual-only, July 2021.
- 53. Damian Pascual, Sandro Luck and Roger Wattenhofer. Towards BERT-based Automatic ICD Coding: Limitations and Opportunities. Proceedings of the 20th Biomedical Natural Language Processing (BioNLP) Workshop, Virtual-only, June 2021.
- 54. Béni Egressy, Henri Devillez, Robin Fritsch and Roger Wattenhofer. Two-Agent Tree Evacuation. Proceedings of the 28th International Colloquium on Structural Information and Communication Complexity (SIROCCO), Wrocław, Poland, June 2021.
- 55. Ard Kastrati, Martyna Beata Plomecka, Nicolas Langer and Roger Wattenhofer. Using Deep Learning to Classify Saccade Direction from Brain Activity. Proceedings of the 13th ACM Symposium on Eye Tracking Research and Applications (ETRA), Online, May 2021.
- 56. Pankaj Khanchandani and Roger Wattenhofer. Byzantine Agreement with Unknown Participants and Failures. Proceedings of the 35th IEEE International Parallel & Distributed Processing Symposium (IPDPS), Portland, Oregon, USA, May 2021.
- 57. Nikola Jovanovic, Zhao Meng, Lukas Faber and Roger Wattenhofer. Towards Robust Graph Contrastive Learning. Proceedings of the Workshop on Self-Supervised Learning for the Web (SSL@WWW 2021), Online, April 2021.
- 58. Damian Pascual, Gino Brunner and Roger Wattenhofer. Telling BERT's Full Story: from Local Attention to Global Aggregation. Proceedings of the 16th Conference of the European Chapter of the Association for Computational Linguistics (EACL), April 2021.

- 59. Ye Wang, Yan Chen, Shuiguang Deng and Roger Wattenhofer. Cyclic Arbitrage in Decentralized Exchange Markets. Proceedings of the 1st Workshop on Decentralized Finance (DeFi), Online, March 2021.
- 60. Tejaswi Nadahalli, Majid Khabbazian and Roger Wattenhofer. Timelocked Bribing. Proceedings of Financial Cryptography and Data Security (FC), Online, March 2021.
- 61. Zeta Avarikioti, Eleftherios Kokoris-Kogias, Roger Wattenhofer and Dionysis Zindros. Brick: Asynchronous Incentive-Compatible Payment Channels. Proceedings of Financial Cryptography and Data Security (FC), Online, March 2021.
- 62. Yuang Cheng, Yue Ding, Damian Pascual, Oliver Richter, Martin Volk and Roger Wattenhofer. WikiFlash: Generating Flashcards from Wikipedia Articles. Proceedings of the AAAI 2021 Workshop on AI Education, Online, February 2021.
- 63. Pál András Papp and Roger Wattenhofer. Sequential Defaulting in Financial Networks. Proceedings of the 12th Innovations in Theoretical Computer Science (ITCS), Online, January 2021.

- 64. Jorel Elmiger, Lukas Faber, Pankaj Khanchandani, Oliver Richter and Roger Wattenhofer. Learning Lower Bounds for Graph Exploration With Reinforcement Learning. Proceedings of Learning meets Combinatorial Algorithms Workshop @ NeurIPS 2020, online, December 2020.
- 65. Johannes Ackermann, Oliver Richter and Roger Wattenhofer. Unsupervised Task Clustering for Multi-Task RL. Proceedings of the Workshop on Deep Reinforcement Learning at the 34th Conference on Neural Information Processing Systems, Online, December 2020.
- 66. Damian Pascual, Alireza Amirshahi, Amir Aminifar, David Atienza, Philippe Ryvlin and Roger Wattenhofer. EpilepsyGAN: Synthetic Epileptic Brain Activities with Privacy Preservation. IEEE Transactions on Biomedical Engineering, December 2020.
- 67. Nicolas Affolter, Béni Egressy, Damian Pascual and Roger Wattenhofer. Brain2Word: Improving Brain Decoding Methods and Evaluation (Oral presentation). Proceedings of Medical Imaging Meets Neurips Workshop, Online, December 2020.
- 68. Zhao Meng and Roger Wattenhofer. A Geometry-Inspired Attack for Generating Natural Language Adversarial Examples. Proceedings of the 28th International Conference on Computational Linguistics (COLING), Barcelona, Spain, December 2020.
- 69. Predrag Krnetic, Darya Melnyk, Yuyi Wang and Roger Wattenhofer. The k-Server Problem with Delays on the Uniform Metric Space. Proceedings of the 31st International Symposium on Algorithms and Computation (ISAAC), Online, December 2020.
- 70. Philippe Panhaleux, Aryaz Eghbali and Roger Wattenhofer. Job Transition: A Case of Mitigation Against Automation? Proceedings of the International Conference on Work and Its Value (ADAPT), Bergamo, Italy, November 2020.
- 71. Ye Wang and Roger Wattenhofer. Asynchronous Byzantine Agreement in Incomplete Networks. Proceedings of the 2nd ACM Conference on Advances in Financial Technologies (AFT), New York, USA, October 2020.

- 72. Yanglin Hu, Darya Melnyk, Yuyi Wang and Roger Wattenhofer. Space Complexity of Streaming Algorithms on Universal Quantum Computers. Proceedings of the 16th Annual Conference on Theory and Applications of Models of Computation (TAMC), Changsha, China, October 2020.
- 73. Lukas Faber, Sandro Luck, Damian Pascual, Andreas Roth, Gino Brunner and Roger Wattenhofer. Medley2K: A Dataset of Medley Transitions. Proceedings of the 13th International Workshop on Machine Learning and Music (MML at ECML-PKDD), Ghent, Belgium, September 2020.
- 74. Manuel Eichelberger, David Timon Geiter, Roland Schmid and Roger Wattenhofer. High-Throughput and Low-Latency Hyperloop. Proceedings of the 23rd IEEE International Conference on Intelligent Transportation Systems (ITSC), Rhodes, Greece, September 2020.
- 75. Alessandro Nicolussi, Simon Tanner and Roger Wattenhofer. Aircraft Fingerprinting Using Deep Learning. Proceedings of the 28th European Signal Processing Conference (EUSIPCO), Amsterdam, The Netherlands, August 2020.
- 76. Damian Pascual, Simon Tanner, Mickey Vänskä and Roger Wattenhofer. A Deep Learning Decoder for Long-Range Communication Systems. Proceedings of the 28th European Signal Processing Conference (EUSIPCO), Amsterdam, The Netherlands, August 2020.
- 77. Pankaj Khanchandani and Roger Wattenhofer. Brief Announcement: Byzantine Agreement with Unknown Participants and Failures. Proceedings of the ACM Symposium on Principles of Distributed Computing (PODC), Virtual conference, August 2020.
- 78. Lukas Faber, Amin K. Moghaddam and Roger Wattenhofer. Contrastive GNN Explanation. Proceedings of the Graph Representation Learning and Beyond Workshop (GRL+ at ICML), July 2020.
- 79. Darya Melnyk and Roger Wattenhofer. The Append Memory Model: Why BlockDAGs Excel Blockchains. Proceedings of the 32nd ACM Symposium on Parallelism in Algorithms and Architectures (SPAA), Philadelphia, Pennsylvania, USA, July 2020.
- 80. Pál András Papp and Roger Wattenhofer. On the Hardness of Red-Blue Pebble Games. Proceedings of the 32nd ACM Symposium on Parallelism in Algorithms and Architectures (SPAA), Philadelphia, Pennsylvania, USA, July 2020.
- 81. Pál András Papp and Roger Wattenhofer. Network-Aware Strategies in Financial Systems. Proceedings of the 47th International Colloquium on Automata, Languages and Programming (ICALP), Saarbrücken, Germany, July 2020.
- 82. Pál András Papp and Roger Wattenhofer. A General Stabilization Bound for Influence Propagation in Graphs. Proceedings of the 47th International Colloquium on Automata, Languages and Programming (ICALP), Saarbrücken, Germany, July 2020.
- 83. Manuel Eichelberger, Ferdinand von Hagen and Roger Wattenhofer. A Spoof-Proof GPS Receiver. Proceedings of the 19th ACM/IEEE International Conference on Information Processing in Sensor Networks (IPSN), Sydney, Australia, April 2020.
- 84. Gino Brunner, Yang Liu, Damian Pascual, Oliver Richter, Massimiliano Ciaramita and Roger Wattenhofer. On Identifiability in Transformers. Proceedings of the 8th International Conference on Learning Representations (ICLR), Addis Ababa, Ethiopia, April 2020.
- 85. Sebastian Brandt, Klaus-Tycho Foerster, Benjamin Richner, and Roger Wattenhofer. Wireless Evacuation on m Rays with k Searchers. Journal Theoretical Computer Science (TCS), Volume 811, pp. 56-69, April 2020.

- 86. Philipp Brandes, Marcin Kardas, Marek Klonowski, Dominik Pajak, Roger Wattenhofer. Fast size approximation of a radio network in beeping model. Journal Theor. Comput. Sci. 810: 15-25, March 2020.
- 87. Zeta Avarikioti, Lioba Heimbach, Yuyi Wang and Roger Wattenhofer. Ride the Lightning: The Game Theory of Payment Channels. Proceedings of the 24th Financial Cryptography and Data Security (FC), Kota Kinabalu, Sabah, Malaysia, February 2020.
- 88. Zeta Avarikioti, Orfeas Stefanos Thyfronitis Litos and Roger Wattenhofer. Cerberus Channels: Incentivizing Watchtowers for Bitcoin. Proceedings of the 24th Financial Cryptography and Data Security (FC), Kota Kinabalu, Sabah, Malaysia, February 2020.
- 89. Zeta Avarikioti, Eleftherios Kokoris-Kogias and Roger Wattenhofer. Brick: Asynchronous Payment Channels. Stanford Blockchain Conference, Stanford University, California, USA, February 2020.

- 90. Damian Pascual, Amir Aminifar, David Atienza, Philippe Ryvlin and Roger Wattenhofer. Synthetic Epileptic Brain Activities using GANs. Proceedings of the Machine Learning for Health (ML4H) at the 33rd Conference on Neural Information Processing Systems, Vancouver, Canada, December 2019.
- 91. Julian Bolick, Gino Brunner, Oliver Richter and Roger Wattenhofer. Tunnel Vision Attack on IMPALA Questioning the Robustness of Reinforcement Learning Agents. Proceedings of the Workshop on Safety and Robustness in Decision Making at 33rd Conference on Neural Information Processing Systems, Vancouver, Canada, December 2019.
- 92. Pál András Papp and Roger Wattenhofer. Stabilization Time in Minority Processes. Proceedings of the 30th International Symposium on Algorithms and Computation (ISAAC), Shanghai, China, December 2019.
- 93. Simon Tanner, Ilian Vogels and Roger Wattenhofer. Protecting Android Apps from Repackaging Using Native Code. Proceedings of the 12th International Symposium on Foundations & Practice of Security (FPS), Toulouse, France, November 2019.
- 94. Gino Brunner, Nawel Naas, Sveinn Palsson, Oliver Richter and Roger Wattenhofer. Monaural Music Source Separation using a ResNet Latent Separator Network. Proceedings of the 31st International Conference on Tools with Artificial Intelligence (ICTAI), Portland, Oregon, USA, November 2019.
- 95. Tejaswi Nadahalli, Majid Khabbazian and Roger Wattenhofer. Outpost: A Responsive Lightweight Watchtower. Proceedings of the 1st ACM conference on Advances in Financial Technologies (AFT), Zurich, Switzerland, October 2019.
- 96. Sebastian Brandt, Roger Wattenhofer. Approximating Small Balanced Vertex Separators in Almost Linear Time. Journal Algorithmica 81(10): 4070-4097, October 2019.
- 97. Aryaz Eghbali and Roger Wattenhofer. 12 Angry Miners. Proceedings of the 3rd International Workshop on Cryptocurrencies and Blockchain Technology (CBT), University of Luxembourg, Luxembourg, September 2019.

- 98. Zeta Avarikioti, Kenan Besic, Yuyi Wang and Roger Wattenhofer. Online Payment Network Design. Proceedings of the 3rd International Workshop on Cryptocurrencies and Blockchain Technology (CBT), University of Luxembourg, Luxembourg, September 2019.
- 99. Zeta Avarikioti, Rolf Scheuner and Roger Wattenhofer. Payment Networks as Creation Games. Proceedings of the 3rd International Workshop on Cryptocurrencies and Blockchain Technology (CBT), University of Luxembourg, Luxembourg, September 2019.
- 100. Gino Brunner, Mazda Moayeri, Oliver Richter, Roger Wattenhofer and Chi Zhang. Neural Symbolic Music Genre Transfer Insights. Proceedings of the 12th International Workshop on Machine Learning and Music (MML), in conjunction with ECML PKDD, Würzburg, Germany, September 2019.
- 101. Timo Bräm, Gino Brunner, Oliver Richter and Roger Wattenhofer. Attentive Multi-Task Deep Reinforcement Learning. Proceedings of the 30th European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD), Würzburg, Germany, September 2019.
- 102. Gino Brunner, Darya Melnyk, Birkir Sigfusson and Roger Wattenhofer. Swimming Style Recognition and Lane Counting Using a Smartwatch. Proceedings of the 23rd International Symposium on Wearable Computers (ISWC), London, UK, September 2019.
- 103. Gino Brunner, Bence Szebedy, Simon Tanner and Roger Wattenhofer. The Urban Last Mile Problem: Autonomous Drone Delivery to Your Balcony. Proceedings of the International Conference on Unmanned Aircraft Systems (ICUAS), Atlanta, GA, USA, June 2019.
- 104. Pankaj Khanchandani and Roger Wattenhofer. The Arvy Distributed Directory Protocol. Proceedings of the 31st ACM Symposium on Parallelism in Algorithms and Architectures (SPAA), Phoenix, AZ, USA, June 2019.
- 105. Klaus-Tycho Foerster, Laurent Vanbever and Roger Wattenhofer. Latency and Consistent Flow Migration: Relax for Lossless Updates. Proceedings of the 18th IFIP Networking Conference (IFIP Networking), Warsaw, Poland, May 2019.
- 106. Manuel Eichelberger, Simon Tanner, Gabriel Voirol and Roger Wattenhofer. Imperceptible Audio Communication. Proceedings of the 44th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Brighton, UK, May 2019.
- 107. Pankaj Khanchandani and Roger Wattenhofer. Two Elementary Instructions make Compare-and-Swap. Proceedings of the 33rd IEEE International Parallel and Distributed Processing Symposium (IPDPS), Rio de Janeiro, Brazil, May 2019.
- 108. Pál András Papp and Roger Wattenhofer. Stabilization Time in Weighted Minority Processes. Proceedings of the 36th International Symposium on Theoretical Aspects of Computer Science (STACS), Berlin, Germany, March 2019.
- 109. Gino Brunner, Andrea Soro, Simon Tanner and Roger Wattenhofer. Recognition and Repetition Counting for Complex Physical Exercises with Deep Learning. Journal Sensors 19(3), February 2019.
- 110. Manuel Eichelberger, Ferdinand von Hagen and Roger Wattenhofer. Multi-Year GPS Tracking Using a Coin Cell. Proceedings of the 20th International Workshop on Mobile Computing Systems and Applications (HotMobile), Santa Cruz, California, USA, February 2019.

- 111. Manuel Eichelberger, Simon Tanner, Gabriel Voirol and Roger Wattenhofer. Receiving Data Hidden in Music. Proceedings of the 20th International Workshop on Mobile Computing Systems and Applications (HotMobile), Santa Cruz, California, USA, February 2019.
- 112. Georgia Avarikioti, Lukas Käppeli, Yuyi Wang and Roger Wattenhofer. Bitcoin Security under Temporary Dishonest Majority. Proceedings of the 23rd Financial Cryptography and Data Security (FC), Saint Kitts and Nevis, February 2019.
- 113. Georgia Avarikioti, Alain Ryser, Yuyi Wang and Roger Wattenhofer. High Dimensional Clustering with r-nets. Proceedings of the 33rd AAAI Conference on Artificial Intelligence (AAAI), Honolulu, Hawaii, USA, January 2019.

- 114. Oliver Richter and Roger Wattenhofer. Quantile Regression Reinforcement Learning with State Aligned Vector Rewards. Proceedings of the Workshop on Modeling and Decision-Making in the Spatiotemporal Domain at the 32nd Conference on Neural Information Processing Systems, Montréal, Québec, Canada, December 2018.
- 115. Darya Melnyk, Yuyi Wang and Roger Wattenhofer. Byzantine Preferential Voting. Proceedings of the 14th Conference on Web and Internet Economics (WINE), Oxford, United Kingdom, December 2018.
- 116. Xingwu Liu, Zhida Pan, Yuyi Wang and Roger Wattenhofer. Impatient Online Matching. Proceedings of the 29th International Symposium on Algorithms and Computation (ISAAC), Jiaoxi, Yilan County, Taiwan, December 2018.
- 117. Georgia Avarikioti, Yuyi Wang and Roger Wattenhofer. Algorithmic Channel Design. Proceedings of the 29th International Symposium on Algorithms and Computation (ISAAC), Jiaoxi, Yilan County, Taiwan, December 2018.
- 118. Stefan Blumer, Manuel Eichelberger and Roger Wattenhofer. Efficient Traffic Routing with Progress Guarantees. Proceedings of the 30th International Conference on Tools with Artificial Intelligence (ICTAI), Volos, Greece, November 2018.
- 119. Gino Brunner, Manuel Fritsche, Oliver Richter and Roger Wattenhofer. Using State Predictions for Value Regularization in Curiosity Driven Deep Reinforcement Learning. Proceedings of the 30th International Conference on Tools with Artificial Intelligence (ICTAI), Volos, Greece, November 2018.
- 120. Oliver Richter and Roger Wattenhofer. TreeConnect: A Sparse Alternative to Fully Connected Layers. Proceedings of the 30th International Conference on Tools with Artificial Intelligence (ICTAI), Volos, Greece, November 2018.
- 121. Gino Brunner, Yuyi Wang, Roger Wattenhofer and Sumu Zhao. Symbolic Music Genre Transfer with CycleGAN. Proceedings of the 30th International Conference on Tools with Artificial Intelligence (ICTAI), Volos, Greece, November 2018.
- 122. Georgia Avarikioti, Felix Laufenberg, Jakub Sliwiski, Yuyi Wang and Roger Wattenhofer. Incentivizing Payment Channel Watchtowers. Talk by Georgia Avarikioti at Scaling Bitcoin, Tokyo, October 2018.

- 123. Christian Fluri, Darya Melnyk and Roger Wattenhofer. Improving Raft When There Are Failures. Proceedings of the 8th Latin-American Symposium on Dependable Computing (LADC), Foz do Iguaçu, Brazil, October 2018.
- 124. Sebastian Brandt, Jara Uitto and Roger Wattenhofer. A Tight Bound for Semi-Synchronous Collaborative Grid Exploration. Proceedings of the 32nd International Symposium on Distributed Computing (DISC), New Orleans, Louisiana, October 2018.
- 125. Pascal Bissig, Gino Brunner, Florian Gubler, Roger Wattenhofer and Andreas Zingg. Towards Measuring Real-World Performance of Android Devices. Proceedings of the 15th International Conference on Computer Systems and Applications (AICCSA), Agaba, Jordan, October 2018.
- 126. Darya Melnyk and Roger Wattenhofer. Byzantine Agreement with Interval Validity. Proceedings of the 37th Annual IEEE International Symposium on Reliable Distributed Systems (SRDS), Salvador, Bahia, Brazil, October 2018.
- 127. Georgia Avarikioti, Gerrit Janssen, Yuyi Wang and Roger Wattenhofer. Payment Network Design with Fees. Proceedings of the 2nd International Workshop on Cryptocurrencies and Blockchain Technology (CBT), Barcelona, Spain, September 2018.
- 128. Gino Brunner, Andres Konrad, Yuyi Wang and Roger Wattenhofer. MIDI-VAE: Modeling Dynamics and Instrumentation of Music with Applications to Style Transfer. Proceedings of the 19th International Society for Music Information Retrieval Conference (ISMIR), Paris, France, September 2018.
- 129. Gino Brunner, Yuyi Wang, Roger Wattenhofer and Michael Weigelt. Disentangling the Latent Space of (Variational) Autoencoders for NLP. Proceedings of the 18th Annual UK Workshop on Computational Intelligence (UKCI), Notthingham, UK, September 2018.
- 130. Darya Melnyk, Yuyi Wang and Roger Wattenhofer. Byzantine Preferential Voting. Presentation at the 3rd Highlights of Algorithms (HALG 2018), Amsterdam, Netherlands, June 2018.
- 131. Gino Brunner, Oliver Richter, Yuyi Wang and Roger Wattenhofer. Teaching a Machine to Read Maps with Deep Reinforcement Learning. Proceedings of the 32nd AAAI Conference on Artificial Intelligence (AAAI), New Orleans, Louisiana, USA, February 2018.
- 132. Pankaj Khanchandani and Roger Wattenhofer. On the Importance of Synchronization Primitives with Low Consensus Numbers. Proceedings of the 19th International Conference on Distributed Computing and Networking (ICDCN), Varanasi, India, January 2018.

- 133. Conrad Burchert and Roger Wattenhofer. piChain: When a Blockchain meets Paxos. Proceedings of the 21st International Conference on Principles of Distributed Systems (OPODIS), Lisboa, Portugal, December 2017.
- 134. Gino Brunner, Yuyi Wang, Roger Wattenhofer and Michael Weigelt. Natural Language Multitasking Analyzing and Improving Syntactic Saliency of Hidden Representations. Proceedings of the 31st Annual Conference on Neural Information Processing Workshop on Learning Disentangled Features: from Perception to Control, Long Beach, CA, December 2017.

- 135. Conrad Burchert, Christian Decker and Roger Wattenhofer. Scalable Funding of Bitcoin Micropayment Channel Networks. Proceedings of the 19th International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS), Boston, Massachusetts, USA, November 2017.
- 136. Gino Brunner, Yuyi Wang, Roger Wattenhofer and Jonas Wiesendanger. JamBot: Music Theory Aware Chord Based Generation of Polyphonic Music with LSTMs. Proceedings of the 29th International Conference on Tools with Artificial Intelligence (ICTAI), Boston, MA, USA, November 2017.
- 137. Manuel Eichelberger, Kevin Luchsinger, Simon Tanner and Roger Wattenhofer. Indoor Localization with Aircraft Signals. Proceedings of the 15th ACM Conference on Embedded Networked Sensor Systems (SenSys), Delft, The Netherlands, November 2017.
- 138. Itai Ashlagi, Yossi Azar, Moses Charikar, Ashish Chiplunkar, Ofir Geri, Haim Kaplan, Rahul Makhijani, Yuyi Wang and Roger Wattenhofer. Min-cost Bipartite Perfect Matching with Delays. Proceedings of the 20th International Workshop on Approximation Algorithms for Combinatorial Optimization Problems (APPROX), Berkeley, California, USA, August 2017.
- 139. Stephan Holzer, Thomas Locher, Yvonne Anne Pignolet and Roger Wattenhofer. Deterministic Multi-Channel Information Exchange. Journal of Computer and System Sciences (JCSS), August 2017. (Journal version of SPAA 2012 paper.)
- 140. Magnús M. Halldórsson, Stephan Holzer, Pradipta Mitra and Roger Wattenhofer. The Power of Oblivious Wireless Power. SIAM Journal on Computing, July 2017. (Journal version of SODA 2013 paper.)
- 141. Sebastian Brandt, Yuval Emek, Jara Uitto and Roger Wattenhofer. A Tight Lower Bound for the Capture Time of the Cops and Robbers Game. Proceedings of the 44th International Colloquium on Automata, Languages, and Programming (ICALP), Warsaw, Poland, July 2017.
- 142. Sebastian Brandt and Roger Wattenhofer. Approximating Small Balanced Vertex Separators in Almost Linear Time. Proceedings of the Algorithms and Data Structures Symposium (WADS), St. John's, NL, Canada, July 2017.
- 143. Sebastian Brandt, Klaus-Tycho Förster, Benjamin Richner and Roger Wattenhofer. Wireless Evacuation on m Rays with k Searchers. Proceedings of the 24th International Colloquium on Structural Information and Communication Complexity (SIROCCO), Porquerolles, France, June 2017.
- 144. Sebastian Brandt, Felix Laufenberg, Yuezhou Lv, David Stolz and Roger Wattenhofer. Collaboration without Communication: Evacuating Two Robots from a Disk. Proceedings of the 10th International Conference on Algorithms and Complexity (CIAC), Athens, Greece, May 2017.
- 145. Klaus-Tycho Förster, Linus Groner, Torsten Hoefler, Michael König, Sascha Schmid and Roger Wattenhofer. Multi-Agent Pathfinding with n Agents on Graphs with n Vertices: Combinatorial Classification and Tight Algorithmic Bounds. Proceedings of the 10th International Conference on Algorithms and Complexity (CIAC), Athens, Greece, May 2017.
- 146. Pascal Bissig, Manuel Eichelberger and Roger Wattenhofer. Fast and Robust GPS Fix Using One Millisecond of Data. Proceedings of the 16th ACM/IEEE International Conference on Information Processing in Sensor Networks (IPSN), Pittsburgh, Pennsylvania, USA, April 2017.
- 147. Sebastian Brandt, Klaus-Tycho Förster and Roger Wattenhofer. Augmenting Flows for the Consistent Migration of Multi-Commodity Single-Destination Flows in SDNs. Pervasive and Mobile Computing, Volume 36, pp. 134–150, April 2017. (Journal version of ICDCN 2016 paper.)

- 148. Klaus-Tycho Förster, Oliver Richter, Jochen Seidel and Roger Wattenhofer. Local Checkability in Dynamic Networks. Proceedings of the 18th International Conference on Distributed Computing and Networking (ICDCN), Hyderabad, India, January 2017.
- 149. Pascal Bissig, Klaus-Tycho Förster, Simon Tanner and Roger Wattenhofer. Distributed Discussion Diarisation. Proceedings of the 14th Annual IEEE Consumer and Networking Conference (CCNC), Las Vegas, NV, USA, January 2017.

- 150. Pankaj Khanchandani and Roger Wattenhofer. Distributed Stable Matching with Similar Preference Lists. Proceedings of the 20th International Conference on Principles of Distributed Systems (OPODIS), Madrid, Spain, December 2016.
- 151. Pascal Bissig, Jan Deriu, Klaus-Tycho Förster and Roger Wattenhofer. RTDS: Real-Time Discussion Statistics. Proceedings of the 15th International Conference on Mobile and Ubiquitous Multimedia (MUM), Rovaniemi, Finland, December 2016.
- 152. Klaus-Tycho Förster and Roger Wattenhofer. Lower and Upper Competitive Bounds for Online Directed Graph Exploration. Theoretical Computer Science, Volume 655, Part A, pp. 15-29, December 2016. (Journal version of an OPODIS 2012 paper.)
- 153. Klaus-Tycho Förster, Thomas Lüdi, Jochen Seidel and Roger Wattenhofer. Local Checkability, No Strings Attached: (A)cyclicity, Reachability, Loop Free Updates in SDNs. Theoretical Computer Science, November 2016. (Journal version of an ICDCN 2016 paper.)
- 154. Michael König and Roger Wattenhofer. Effectively Capturing Attention Using the Capture Effect. Proceedings of the 14th ACM Conference on Embedded Networked Sensor Systems (SenSys), Stanford, CA, USA, November 2016.
- 155. Klaus-Tycho Förster, Demian Jäger, David Stolz and Roger Wattenhofer. Reducing the Latency-Tail of Short-Lived Flows: Adding Forward Error Correction in Data Centers. Proceedings of the 15th IEEE International Symposium on Network Computing and Applications (NCA), Cambridge, MA, USA, November 2016.
- 156. Philipp Brandes and Roger Wattenhofer. Which Tasks of a Job are Susceptible to Computerization? Bulletin of the European Association for Theoretical Computer Science, October 2016.
- 157. Philipp Brandes, Zengfeng Huang, Hsin-Hao Su and Roger Wattenhofer. Clairvoyant Mechanisms for Online Auctions. Proceedings of hte 22nd Annual International Computing and Combinatorics Conference (COCOON), Ho Chi Minh City, Vietnam, August 2016.
- 158. Klaus-Tycho Förster and Roger Wattenhofer. The Power of Two in Consistent Network Updates: Hard Loop Freedom, Easy Flow Migration. Proceedings of the 25th International Conference on Computer Communication and Networks (ICCCN), Waikoloa, Hi, USA, August 2016.
- 159. Philipp Brandes, Marcin Kardas, Marek Klonowski, Dominik Pajak and Roger Wattenhofer. Approximating the Size of a Radio Network in Beeping Model. Proceedings of the 23rd International Colloquium on Structural Information and Communication Complexity (SIROCCO), Helsinki, Finland, July 2016.

- 160. Yuval Emek, Shay Kutten and Roger Wattenhofer. Online Matching: Haste makes Waste! Proceedings of the 48th Annual Symposium on the Theory of Computing (STOC), Cambridge, Massachusetts, June 2016.
- 161. Michael König and Roger Wattenhofer. Maintaining Constructive Interference Using Well-Synchronized Sensor Nodes. Proceedings of the 12th Annual International Conference on Distributed Computing in Sensor Systems (DCOSS), Washington, D.C., USA, May 2016.
- 162. Fabian Kuhn, Thomas Moscibroda and Roger Wattenhofer. Local Computation: Lower and Upper Bounds. Journal of the ACM (JACM), Volume 63 Issue 2, May 2016. (Journal version of a PODC 2004 and a SODA 2006 paper.)
- 163. Sebastian Brandt, Klaus-Tycho Förster and Roger Wattenhofer. On Consistent Migration of Flows in SDNs. Proceedings of the 36th IEEE International Conference on Computer Communications (INFOCOM), San Francisco, California, April 2016.
- 164. Christoph Lenzen and Roger Wattenhofer. Tight Bounds for Parallel Randomized Load Balancing. Distributed Computing 29(2): 127-142, April 2016. (Journal version of a STOC 2011 paper.)
- 165. Luca Ardüser, Pascal Bissig, Philipp Brandes and Roger Wattenhofer. Recognizing Text Using Motion Data From a Smartwatch. Proceedings of the 1st Workshop on Sensing Systems and Applications Using Wrist Worn Smart Devices (WristSense), Sydney, Australia, March 2016.
- 166. Michael König and Roger Wattenhofer. Sharing a Medium Between Concurrent Protocols Without Overhead Using the Capture Effect. Proceedings of the 13th International Conference on Embedded Wireless Systems and Networks (EWSN), Graz, Austria, February 2016.
- 167. Kyle Croman, Christian Decker, Ittay Eyal, Adem Efe Gencer, Ari Juels, Ahmed Kosba, Andrew Miller, Prateek Saxena, Elaine Shi, Emin Gun Sirer, Dawn Song and Roger Wattenhofer. On Scaling Decentralized Blockchains. Proceedings of the 3rd Workshop on Bitcoin Research (BITCOIN), Barbados, February 2016.
- 168. Sebastian Brandt, Klaus-Tycho Förster and Roger Wattenhofer. Augmenting Anycast Network Flows. Proceedings of the 17th International Conference on Distributed Computing and Networking (ICDCN), Singapore, January 2016.
- 169. Christian Decker, Jochen Seidel and Roger Wattenhofer. Bitcoin Meets Strong Consistency. Proceedings of the 17th International Conference on Distributed Computing and Networking (ICDCN), Singapore, January 2016.
- 170. Klaus-Tycho Förster, Thomas Lüdi, Jochen Seidel and Roger Wattenhofer. Local Checkability, No Strings Attached. Proceedings of the 17th International Conference on Distributed Computing and Networking (ICDCN), Singapore, January 2016. (Best paper award)

171. Barbara Keller, Tobias Langner, Jara Uitto and Roger Wattenhofer. Overcoming Obstacles with Ants. Proceedings of the 19th International Conference on Priniciples of Distributed Systems (OPODIS), Rennes, France, December 2015.

- 172. David Stolz and Roger Wattenhofer. Byzantine Agreement with Median Validity. Proceedings of the 19th International Conference on Priniciples of Distributed Systems (OPODIS), Rennes, France, December 2015.
- 173. Pascal Bissig, Philipp Brandes, Roger Wattenhofer and Roman Willi. Spoilers Ahead Personalized Web Filtering. Proceedings of the 4th International Workshop on Web Personalization, Recommender Systems and Social Media (WPRSM), Singapore, December 2015.
- 174. Sebastian Brandt, Nicolas Mattia, Jochen Seidel and Roger Wattenhofer. Toehold DNA Languages are Regular. Proceedings of the 26th International Symposium on Algorithms and Computation (ISAAC), Nagoya, Japan, December 2015.
- 175. Pascal Bissig, Philipp Brandes, Jonas Passerini and Roger Wattenhofer. Inferring Touch From Motion in Real World Data. Proceedings of the 8th International Symposium on Foundations & Practice of Security (FPS), Clermont-Ferrand, France, October 2015.
- 176. Jochen Seidel, Jara Uitto and Roger Wattenhofer. Randomness vs. Time in Anonymous Networks. Proceedings of the 29th International Symposium on Distributed Computing (DISC), Tokyo, Japan, October 2015.
- 177. Yuval Emek, Tobias Langner and Roger Wattenhofer. The Price of Matching with Metric Preferences. Proceedings of the 23rd European Symposium on Algorithms (ESA), Patras, Greece, September 2015.
- 178. Christian Decker, James Guthrie, Jochen Seidel and Roger Wattenhofer. Making Bitcoin Exchanges Transparent. Proceedings of the 20th European Symposium on Research in Computer Security (ESORICS), Vienna, Austria, September 2015.
- 179. Jara Uitto and Roger Wattenhofer. Ignorant vs. Anonymous Recommendations. Proceedings of the 23rd European Symposium on Algorithms (ESA), Patras, Greece, September 2015.
- 180. Sergey Grizan, David Chu, Alec Wolman and Roger Wattenhofer. dJay: Enabling High-density Multitenancy for Cloud Gaming Servers with Dynamic Cost-Benefit GPU Load Balancing. Proceedings of the 6th ACM Symposium on Cloud Computing (SoCC), Kohala Coast, Hawaii, August 2015.
- 181. Christian Decker and Roger Wattenhofer. A Fast and Scalable Payment Network with Bitcoin Duplex Micropayment Channels. Proceedings of the 17th International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS), Edmonton, Canada, August 2015. (Invited paper.)
- 182. Klaus-Tycho Förster, Rijad Nuridini, Jara Uitto and Roger Wattenhofer. Lower Bounds for the Capture Time: Linear, Quadratic, and Beyond. Proceedings of the 22nd International Colloquium on Structural Information and Communication Complexity (SIROCCO), Montserrat, Spain, July 2015.
- 183. Yuval Emek, Tobias Langner, David Stolz, Jara Uitto and Roger Wattenhofer. How Many Ants Does it Take to Find the Food? Journal Theoretical Computer Science, June 2015.
- 184. Philipp Brandes and Roger Wattenhofer. Space and Write Overhead are Inversely Proportional in Flash Memory. Proceedings of the 8th ACM International Systems and Storage Conference (SYSTOR), Haifa, Israel, May 2015.
- 185. Jara Uitto and Roger Wattenhofer. On Competitive Recommendations. Journal Theoretical Computer Science, March 2015.

186. Christoph Lenzen, Philipp Sommer and Roger Wattenhofer. PulseSync: An Efficient and Scalable Clock Synchronization Protocol. IEEE/ACM Transactions on Networking, March 2015. (Journal version of a SenSys 2009 paper.)

- 187. Marcin Bienkowski, Leszek Gasieniec, Marek Klonowski, Miroslaw Korzeniowski, Bernard Mans, Stefan Schmid and Roger Wattenhofer. Distributed Alarming in the On-Duty and Off-Duty Models. ACM/IEEE Transactions on Networking (TON), December 2014. (Joint journal paper, partially based on a SWAT 2008 publication.)
- 188. Klaus-Tycho Förster, Jochen Seidel and Roger Wattenhofer. Deterministic Leader Election in Multi-Hop Beeping Networks. Proceedings of the 28th International Symposium on Distributed Computing (DISC), Austin, Texas, October 2014.
- 189. Tobias Langner, David Stolz, Jara Uitto and Roger Wattenhofer. Fault-Tolerant ANTS. Tobias Langner, David Stolz, Jara Uitto and Roger Wattenhofer. Proceedings of the 28th International Symposium on Distributed Computing (DISC), Austin, Texas, October 2014.
- 190. Stephan Holzer, David Peleg and Liam Roditty and Roger Wattenhofer. Distributed 3/2-Approximation of the Diameter. Proceedings of the 28th International Symposium on Distributed Computing (DISC), Austin, Texas, October 2014.
- 191. Stephan Holzer and Sebastian Kohler and Roger Wattenhofer. k-Selection and Sorting in the SINR Model. Proceedings of the 28th International Symposium on Distributed Computing (DISC), Austin, Texas, October 2014.
- 192. Tobias Bamert, Christian Decker, Roger Wattenhofer and Samuel Welten. BlueWallet: The Secure Bitcoin Wallet. Proceedings of the 10th International Workshop on Security and Trust Management (STM), Wroclaw, Poland, September 2014.
- 193. Christian Decker and Roger Wattenhofer. Bitcoin Transaction Malleability and MtGox. Proceedings of the 19th European Symposium on Research in Computer Security (ESORICS), Wroclaw, Poland, September 2014.
- 194. Xin Jin, Jennifer Rexford, Ming Zhang, Ratul Mahajan, Srikanth Kandula, Hongquiang Liu, Rohan Gandhi and Roger Wattenhofer. Dionysus: Dynamic Scheduling of Network Updates. Proceedings of the Annual Conference of the ACM Special Interest Group on Data Communication (SIGCOMM), Chicago, August 2014.
- 195. Yuval Emek, Tobias Langner, David Stolz, Jara Uitto and Roger Wattenhofer. How Many Ants Does It Take To Find the Food? Proceedings of the 21st International Colloquium on Structural Information and Communication Complexity, Hida Takayama, Japan, July 2014.
- 196. Alexandra Hochuli, Stephan Holzer and Roger Wattenhofer. Distributed Approximation of Minimum Routing Cost Trees. Proceedings of the 21st International Colloquium on Structural Information and Communication Complexity, Hida Takayama, Japan, July 2014.
- 197. Yuval Emek, Christoph Pfister, Jochen Seidel and Roger Wattenhofer. Anonymous Networks: Randomization = 2-Hop Coloring. Proceedings of the 32nd Annual ACM SIGACT-SIGOPS Symposium on Principles of Distributed Computing (PODC), Paris, France, July 2014.

- 198. Yuval Emek, Jochen Seidel and Roger Wattenhofer. Computability in Anonymous Networks: Revocable vs. Irrecovable Outputs. Proceedings of the 41st International Colloquium on Automata, Languages and Programming (ICALP) Track B, Copenhagen, Denmark, July 2014.
- 199. Yuval Emek, Tobias Langner, Jara Uitto and Roger Wattenhofer. Solving the ANTS Problem with Asynchronous Finite State Machines. Proceedings of the 41st International Colloquium on Automata, Languages, and Programming (ICALP) Track C, Copenhagen, Denmark, July 2014.
- 200. Barbara Keller, David Peleg, Roger Wattenhofer. How Even Tiny Influence Can Have a Big Impact! Proceedings of the 7th International Conference on Fun With Algorithms (FUN), Lipari Island, Italy, July 2014.
- 201. Dominic Meier, Yvonne Anne Pignolet, Stefan Schmid and Roger Wattenhofer. On the Windfall and Price of Friendship: Inoculation Strategies on Social Networks. Journal Computer Networks 62: 221-236, April 2014. (Journal version of an EC 2008 paper.)

- 202. Michael König and Roger Wattenhofer. On Local Fixing. Proceedings of the 17th International Conference On Principles Of Distributed Systems (OPODIS), Nice, France, December 2013.
- 203. Ratul Mahajan and Roger Wattenhofer. On Consistent Updates in Software Defined Networks. Proceedings of the 12th ACM Workshop on Hot Topics in Networks (HotNets), College Park, Maryland, November 2013.
- 204. Yuval Emek and Roger Wattenhofer. Frequency Hopping against a Powerful Adversary. Proceedings of the 27th International Symposium on Distributed Computing (DISC), Jerusalem, Israel, October 2013.
- 205. Silvio Frischknecht, Barbara Keller and Roger Wattenhofer. Convergence in (Social) Influence Networks. Proceedings of the 27th International Symposium on Distributed Computing (DISC), Jerusalem, Israel, October 2013.
- 206. Jara Uitto and Roger Wattenhofer. On Competitive Recommendations. Proceedings of the 24th International Conference on Algorithmic Learning Theory (ALT), Singapore, October 2013.
- 207. Johannes Schneider, Michael Elkin and Roger Wattenhofer. Symmetry Breaking Depending on the Chromatic Number or the Neighborhood Growth. Journal Theoretical Computer Science, Volume 509, October 2013. (Extended journal version of a SIROCCO 2011 paper.)
- 208. Tobias Bamert, Christian Decker, Lennart Elsen, Roger Wattenhofer and Samuel Welten. Have a Snack, Pay with Bitcoins. Proceedings of the 13th IEEE International Conference on Peer-to-Peer Computing (P2P), Trento, Italy, September 2013.
- 209. Christian Decker and Roger Wattenhofer. Information Propagation in the Bitcoin Network. Proceedings of the 13th IEEE International Conference on Peer-to-Peer Computing (P2P), Trento, Italy, September 2013. (Best paper award)
- 210. Christian Decker, Raphael Eidenbenz and Roger Wattenhofer. Exploring and Improving BitTorrent Topologies. Proceedings of the 13th IEEE International Conference on Peer-to-Peer Computing (P2P), Trento, Italy, September 2013.

- 211. Hongqiang Harry Liu, Xin Wu, Ming Zhang, Lihua Yuan, Roger Wattenhofer and David A. Maltz. zUpdate: Updating Data Center Networks with Zero Loss. Proceedings of the Annual Conference of the ACM Special Interest Group on Data Communication (SIGCOMM), Hong Kong, August 2013.
- 212. Chi-Yao Hong, Srikanth Kandula, Ratul Mahajan, Ming Zhang, Vijay Gill, Mohan Nanduri and Roger Wattenhofer. Achieving High Utilization with Software-Driven WAN. Proceedings of the Annual Conference of the ACM Special Interest Group on Data Communication (SIGCOMM), Hong Kong, August 2013.
- 213. Olga Goussevskaia and Wattenhofer. Scheduling with Interference Decoding: Complexity and Algorithms. Journal Ad Hoc Networks, Volume 11, Issue 6, August 2013.
- 214. Yuval Emek and Roger Wattenhofer. Stone Age Distributed Computing. Proceedings of the 31st Annual ACM SIGACT-SIGOPS Symposium on Principles of Distributed Computing (PODC), Montreal, Canada, July 2013.
- 215. Christoph Lenzen, Yvonne-Anne Pignolet and Roger Wattenhofer. Distributed Minimum Dominating Set Approximations in Restricted Families of Graphs. Journal Distributed Computing, Volume 26, Issue 2, April 2013. (Joint journal version of a SPAA 2008 and DISC 2010 paper.)
- 216. Pascal Bissig, Roger Wattenhofer and Samuel Welten. A Pocket Guide to Indoor Mapping. Proceedings of the Workshop on Positioning, Navigation and Communication (WPNC), Dresden, Germany, March 2013.
- 217. Magnus Halldorsson, Stephan Holzer, Pradipta Mitra and Roger Wattenhofer. The Power of Non-Uniform Wireless Power. Proceedings of the 24th ACM-SIAM Symposium on Discrete Algorithms (SODA), New Orleans, Louisiana, January 2013.

- 218. Atish Das Sarma, Stephan Holzer, Liah Kor, Amos Korman, Danupon Nanongkai, Gopal Pandurangan, David Peleg, and Roger Wattenhofer. Distributed Verification and Hardness of Distributed Approximation. SIAM Journal on Computing, Volume 41(5): 1235-1265, December 2013. (Journal version, special issue of selected papers at STOC 2011.)
- 219. Klaus-Tycho Förster and Roger Wattenhofer. Directed Graph Exploration. Proceedings of the 16th International Conference On Principles Of Distributed Systems (OPODIS), Rome, Italy, December 2012.
- 220. Christof Baumann, Stephan Holzer, Miguel Rodriguez and Roger Wattenhofer. Smart Energy Case Study. Proceedings of the 4th ACM Workshop On Embedded Sensing Systems For Energy-Efficiency In Buildings (BuildSys), Toronto, Canada, November 2012.
- 221. Sarah Martina Kolly, Roger Wattenhofer and Samuel Welten. A Personal Touch Recognizing Users Based on Touch Screen Behavior. Proceedings of the 3rd International Workshop on Sensing Applications on Mobile Phones (PhoneSense), Toronto, Canada, November 2012. (Best paper award)
- 222. Philipp Brandes and Roger Wattenhofer. On Finding Better Friends in Social Networks. Proceedings of the 14th International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS), Toronto, Canada, October 2012.

- 223. Raphael Eidenbenz, Thomas Locher, Stefan Schmid and Roger Wattenhofer. Boosting Market Liquidity of Peer-to-Peer Systems Through Cyclic Trading. Proceedings of the 12th International Conference on Peer-to-Peer Computing (P2P), Tarragona, Spain, September 2012.
- 224. Olga Goussevskaia and Roger Wattenhofer. Scheduling Wireless Links with Successive Interference Cancellation. Proceedings of the 21st International Conference on Computer Communication Networks (ICCCN), Munich, Germany, July 2012. (Journal version of a FOWANC 2008 paper.)
- 225. Stephan Holzer and Roger Wattenhofer. Optimal Distributed All Pairs Shortest Paths and Applications. Proceedings of the 31st Annual ACM SIGACT-SIGOPS Symposium on Principles of Distributed Computing (PODC), Madeira, Portugal, July 2012.
- 226. Stephan Holzer, Thomas Locher, Yvonne Anne Pignolet, and Roger Wattenhofer. Deterministic Multi-Channel Information Exchange. Proceedings of the 24th ACM Symposium on Parallelism in Algorithms and Architectures (SPAA), Pittsburgh, Pennsylvania, June 2012.
- 227. Mirjam Wattenhofer, Roger Wattenhofer, and Zack Zhu. The YouTube Social Network. Proceedings of the 6th International AAAI Conference on Weblogs and Social Media (ICWSM), Dublin, Ireland, June 2012.
- 228. Barbara Keller, Philippe von Bergen, Roger Wattenhofer, and Samuel Welten. On the Feasibility of Opportunistic Ad Hoc Music Sharing. Mobile Developer Challenge Workshop (MDC), Newcastle, United Kingdom, June 2012.
- 229. Remo Meier and Roger Wattenhofer. Peer-to-Peer Streaming in Heterogeneous Environments. Journal Elsevier Signal Processing: Image Communication, Volume 27 (5): 457-469, March 2012. (Journal publication without previous conference publication.)
- 230. Stephan Holzer, Yvonne Anne Pignolet, Jasmin Smula, and Roger Wattenhofer. Monitoring churn in wireless networks. Theor. Comput. Sci. 453: 29-43, January 2012. (Journal version of an ALGOSENSORS 2010 paper.)
- 231. Silvio Frischknecht, Stephan Holzer, and Roger Wattenhofer. Networks Cannot Compute Their Diameter in Sublinear Time. Proceedings of the 23rd ACM-SIAM Symposium on Discrete Algorithms (SODA), Kyoto, Japan, January 2012.

- 232. Samuel Pfaffen, Philipp Sommer, Christian Stocker, Roger Wattenhofer, and Samuel Welten. Planipes: Mobile Foot Pressure Analysis. Proceedings of the 1st International Workshop on Mobile Systems Applications, and Services for Healthcare (mHealthSys), Seattle, Washington, November 2011. (Best paper award.)
- 233. Thomas Moscibroda, Stefan Schmid, Roger Wattenhofer. Topological Implications of Selfish Neighbor Selection in Unstructured Peer-to-Peer Networks. Algorithmica 61(2): 419-446, 2011. (Journal version of a SPAA 2005 paper.)
- 234. Johannes Schneider and Roger Wattenhofer. Trading Bit, Message, and Time Complexity of Distributed Algorithms. Proceedings of the 25th International Symposium on Distributed Computing (DISC), Rome, Italy, September 2011.

- 235. Thomas Fahrni, Michael Kuhn, Philipp Sommer, Roger Wattenhofer, and Samuel Welten. Sundroid: Solar Radiation Awareness with Smartphones. Proceedings of the 13th International Conference on Ubiquitous Computing (Ubicomp), Beijing, September 2011.
- 236. Raphael Eidenbenz and Roger Wattenhofer. Good Programming in Transactional Memory. Journal Theoretical Computer Science (TCS), July 2011. (Journal version of an ISAAC 2009 paper.)
- 237. Johannes Schneider and Roger Wattenhofer. Bounds on Contention Management Algorithms. Journal Theoretical Computer Science (TCS), July 2011. (Journal version of an ISAAC 2009 paper.)
- 238. Bastian Degener, Barbara Kempkes, Tobias Langner, Friedhelm Meyer Auf Der Heide, Peter Pietrzyk, and Roger Wattenhofer. Runtime Analysis of a Local Synchronous Gathering Algorithm for Mobile Robots. Proceedings of the 23rd ACM Symposium on Parallelism in Algorithms and Architectures (SPAA), San Jose, California, US, June 2011.
- 239. Thomas Locher, Stefan Schmid, and Roger Wattenhofer. eDonkey & eMule's Kad: Measurements & Attacks. Journal Fundamenta Informaticae, Volume 109, Number 4, 2011. (Journal version of a DYNAS 2009 paper.)
- 240. Christoph Lenzen and Roger Wattenhofer. MIS on Trees. Proceedings of the 29th Symposium on Principles of Distributed Computing (PODC), San Jose, California, US, June 2011.
- 241. Christoph Lenzen and Roger Wattenhofer. Tight Bounds for Parallel Randomized Load Balancing. Proceedings of the 43rd Symposium on Theory of Computing (STOC), San Jose, California, US, June 2011.
- 242. Atish Das Sarma, Stephan Holzer, Liah Kor, Amos Korman, Danupon Nanongkai, Gopal Pandurangan, David Peleg, and Roger Wattenhofer. Distributed Verification and Hardness of Distributed Approximation. Proceedings of the 43rd Symposium on Theory of Computing (STOC), San Jose, California, June 2011.
- 243. Stephan Holzer, Yvonne Anne Pignolet, Jasmin Smula, and Roger Wattenhofer. Time-Optimal Information Exchange on Multiple Channels. Proceedings of the 7th ACM SIGACT/SIGMOBILE International Workshop on Foundations of Mobile Computing (FOMC), San Jose, California, June 2011.
- 244. Johannes Schneider and Roger Wattenhofer. Distributed Coloring Depending on the Chromatic Number or the Neighborhood Growth. Proceedings of the 18th International Colloquium on Structural Information and Communication Complexity (SIROCCO), Gdansk, Poland, June 2011.
- 245. Michael Kuhn, Martin Wirz, Matthias Fluckiger, Gerhard Troester, and Roger Wattenhofer. Sensing Dance Engagement for Collborative Music Control. Proceedings of the IEEE International Symposium on Wearable Computers (ISWC), San Francisco, California, June 2011.
- 246. Georg Oberholzer, Philipp Sommer, and Roger Wattenhofer. SpiderBat: Augmenting Wireless Sensor Networks with Distance and Angle Information. Proceedings of the 10th ACM/IEEE International Conference on Information Processing in Sensor Networks (IPSN), Chicago, Illinois, April 2011.
- 247. Raphael Eidenbenz, Thomas Locher, and Roger Wattenhofer. Hidden Communication in P2P Networks. Proceedings of the 30th IEEE International Conference on Computer Communications (INFOCOM), Shanghai, China, April 2011.
- 248. Michael von Kaenel, Philipp Sommer, and Roger Wattenhofer. Ikarus: Large-Scale Participatory Sensing at High Altitudes. Proceedings of the 12th Workshop on Mobile Computing Systems and Applications (HotMobile), Phoenix, Arizona, March 2011.

249. Raphael Eidenbenz, Yvonne Anne Pignolet, Stefan Schmid, and Roger Wattenhofer. Cost and Complexity of Harnessing Games with Payments. Journal International Game Theory Review (IGTR), January 2011. (Journal version of a ISAAC 2007 paper and a COCOA 2007 paper.)

- 250. Georg Oberholzer, Philipp Sommer and Roger Wattenhofer. The SpiderBat Ultrasound Positioning System. Demo in the Proceedings of the 8th ACM Conference on Embedded Networked Sensor Systems (SenSys), Zurich, Switzerland, November 2010.
- 251. David Gugelmann, Philipp Sommer and Roger Wattenhofer. Reliable and Energy-Efficient Bulk-Data Dissemination in Wireless Sensor Networks. Poster in the Proceedings of the 8th ACM Conference on Embedded Networked Sensor Systems (SenSys), Zurich, Switzerland, November 2010.
- 252. Michael Kuhn, Roger Wattenhofer, and Samuel Welten. Social Audio Features for Advanced Music Retrieval Interfaces. Proceedings of ACM Multimedia, Florence, October 2010.
- 253. Michael Kuhn, Roger Wattenhofer, and Samuel Welten. Improving Personal Diaries Using Social Audio Features. Short paper for Google Grand Challenge at ACM Multimedia, Florence, Italy, October 2010.
- 254. Johannes Schneider and Roger Wattenhofer. What Is the Use of Collision Detection (in Wireless Networks)? Proceedings of the 24th International Symposium on Distributed Computing (DISC), Cambridge, Massachusetts, September 2010.
- 255. Christoph Lenzen and Roger Wattenhofer. Minimum Dominating Set Approximation in Graphs of Bounded Arboricity. Proceedings of the 24th International Symposium on Distributed Computing (DISC), Cambridge, Massachusetts, September 2010.
- 256. Johannes Schneider and Roger Wattenhofer. A New Technique For Distributed Symmetry Breaking. Proceedings of the 29th Symposium on Principles of Distributed Computing (PODC), Zurich, Switzerland, July 2010.
- 257. Johannes Schneider and Roger Wattenhofer. Efficient Graph Algorithms without Synchronization. Brief Announcement in the Proceedings of the 29th Symposium on Principles of Distributed Computing (PODC), Zurich, Switzerland, July 2010.
- 258. Johannes Schneider and Roger Wattenhofer. Tree Decomposition for Faster Concurrent Data Structures. Brief Announcement in the Proceedings of the 29th Symposium on Principles of Distributed Computing (PODC), Zurich, Switzerland, July 2010.
- 259. Christoph Lenzen and Roger Wattenhofer. Exponential Speed-Up of Local Algorithms using Non-Local Communication. Brief Announcement in the Proceedings of the 29th Symposium on Principles of Distributed Computing (PODC), Zurich, Switzerland, July 2010.
- 260. Roger Wattenhofer. Physical Algorithms. Invited Paper. Proceedings of the 37th International Colloquium on Automata, Languages and Programming (ICALP), Bordeaux, France, July 2010.
- 261. Stephan Holzer, Yvonne Anne Pignolet, Jasmin Smula, and Roger Wattenhofer. Monitoring Churn in Wireless Networks. Proceedings of the 6th International Workshop on Algorithms for Sensor Systems (ALGOSENSORS), Wireless Ad Hoc Networks and Autonomous Mobile Entities, Bordeaux, France, July 2010.

- 262. David Hasenfratz, Johannes Schneider, and Roger Wattenhofer. Transactional Memory: How to Perform Load Adaption in a Simple And Distributed Manner. Proceedings of the 2010 International Conference on High Performance Computing & Simulation (HPCS), Caen, France, June 2010.
- 263. Johannes Schneider and Roger Wattenhofer. An Optimal Maximal Independent Set Algorithm for Bounded-Independence Graphs. Journal Distributed Computing, Volume 22, Number 5-6, March 2010. (Special issue for selected paper of PODC 2008.)
- 264. Roland Flury and Roger Wattenhofer. Slotted Programming for Sensor Networks. Proceedings of the 9th ACM/IEEE International Conference on Information Processing in Sensor Networks (IPSN), Stockholm, Sweden, April 2010.
- 265. Fabian Kuhn, Stefan Schmid and Roger Wattenhofer. Towards Worst-Case Churn Resistant Peer-to-Peer Systems. Journal Distributed Computing, Volume 22, Number 4, January 2010. (Journal version of an IPTPS 2005 paper.)
- 266. Christoph Lenzen, Thomas Locher, and Roger Wattenhofer. Tight Bounds for Clock Synchronization. Journal of the ACM (JACM), Volume 57, Issue 2, January 2010. (Journal version of a FOCS 2008 paper and a PODC 2009 paper.)
- 267. Yvonne Anne Pignolet, Stefan Schmid, and Roger Wattenhofer. Tight Bounds for Delay-Sensitive Aggregation. Journal Discrete Mathematics & Theoretical Computer Science (DMTCS), Vol 12, No 1, January 2010. (Journal version of a PODC 2008 paper.)
- 268. Christoph Lenzen, Thomas Locher, Philipp Sommer, and Roger Wattenhofer. Clock Synchronization: Open Problems in Theory and Practice. Invited Paper. Proceedings of the 36th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM), Špindlerův Mlýn, Czech Republic, January 2010.
- 269. Thomas Locher, David Mysicka, Stefan Schmid, and Roger Wattenhofer. Poisoning the Kad Network. Proceedings of the 11th International Conference on Distributed Computing and Networking (ICDCN), Kolkata, India, January 2010.

- 270. Johannes Schneider and Roger Wattenhofer. Bounds On Contention Management Algorithms. Proceedings of the The 20th International Symposium on Algorithms and Computation (ISAAC), Honolulu, Hawaii, December 2009.
- 271. Raphael Eidenbenz and Roger Wattenhofer. Good Programming in Transactional Memory: Game Theory Meets Multicore Architecture. Proceedings of the The 20th International Symposium on Algorithms and Computation (ISAAC), Honolulu, Hawaii, December 2009. (A preliminary version of this paper was presented at SPAA 2009.)
- 272. Christoph Lenzen, Philipp Sommer, and Roger Wattenhofer. Optimal Clock Synchronization in Networks. Proceedings of the 7th ACM Conference on Embedded Networked Sensor Systems (SenSys), Berkeley, California, November 2009.

- 273. Nicolas Burri, Roland Flury, Silvan Nellen, Benjamin Sigg, Philipp Sommer, and Roger Wattenhofer. YETI An Eclipse Plug-in for TinyOS 2.1. Demo Abstract in the Proceedings of the 7th ACM Conference on Embedded Networked Sensor Systems (SenSys Demo), Berkeley, California, November 2009.
- 274. Lars Schor, Philipp Sommer, and Roger Wattenhofer. Towards a Zero-Configuration Wireless Sensor Network Architecture for Smart Buildings. Proceedings of the 1st ACM Workshop On Embedded Sensing Systems For Energy-Efficiency In Buildings (BuildSys), Berkeley, California, November 2009.
- 275. Christoph Lenzen, Jukka Suomela, and Roger Wattenhofer. Local Algorithms: Self-Stabilization on Speed. Invited paper. Proceedings of the 11th International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS), Lyon, France, November 2009.
- 276. Thomas Locher, David Mysicka, Stefan Schmid, and Roger Wattenhofer. A Peer Activity Study in eDonkey & Kad. Invited paper. International Workshop on Dynamic Networks: Algorithms and Security (DYNAS), Wroclaw, Poland, September 2009.
- 277. Lukas Bossard, Michael Kuhn, and Roger Wattenhofer. Visually and Acoustically Exploring the High-Dimensional Space of Music. Proceedings of the IEEE International Conference on Social Computing (SocialCom), Vancouver, Canada, August 2009.
- 278. Johannes Schneider and Roger Wattenhofer. Coloring Unstructured Wireless Multi-Hop Networks. Proceedings of the 28th ACM Symposium on Principles of Distributed Computing (PODC), Calgary, Canada, August 2009.
- 279. Christoph Lenzen, Thomas Locher, and Roger Wattenhofer. Tight Bounds for Clock Synchronization. Proceedings of the 28th ACM Symposium on Principles of Distributed Computing (PODC), Calgary, Canada, August 2009. (Best paper award.)
- 280. Magnus Halldorsson and Roger Wattenhofer. Wireless Communication is in APX. Proceedings of the 36th International Colloquium on Automata, Languages and Programming (ICALP) Track A, Rhodes, Greece, July 2009.
- 281. Dominic Meier, Yvonne Anne Pignolet, Stefan Schmid, and Roger Wattenhofer. Speed Dating Despite Jammers. Proceedings of the 5th IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS), Marina Del Rey, California, June 2009.
- 282. Remo Meier, Thomas Locher, Stefan Schmid, and Roger Wattenhofer. Robust Live Media Streaming in Swarms. Proceedings of the 19th International Workshop on Network and Operating Systems Support for Digital Audio and Video (NOSSDAV), Williamsburg, Virginia, June 2009.
- 283. Reto Grob, Michael Kuhn, Roger Wattenhofer, and Martin Wirz. Cluestr: Mobile Social Networking for Enhanced Group Communication. Proceedings of the 7th ACM SIGGROUP Conference on Supporting Group Work (GROUP), Sanibel Island, Florida, May 2009.
- 284. Roland Flury, Sriram Pemmaraju, and Roger Wattenhofer. Greedy Routing with Bounded Stretch. Proceedings of the 28th Annual IEEE Conference on Computer Communications (INFOCOM), Rio de Janeiro, Brazil, April 2009.
- 285. Olga Goussevskaia, Magnús Halldórsson, Roger Wattenhofer, and Emo Welzl. Capacity of Arbitrary Wireless Networks. Proceedings of the 28th Annual IEEE Conference on Computer Communications (INFOCOM), Rio de Janeiro, Brazil, April 2009.

- 286. Philipp Sommer and Roger Wattenhofer. Gradient Clock Synchronization in Wireless Sensor Networks. Proceedings of the 8th ACM/IEEE International Conference on Information Processing in Sensor Networks (IPSN), San Francisco, April 2009.
- 287. Thomas Moscibroda, Stefan Schmid and Roger Wattenhofer. The Price of Malice: A Game-Theoretic Framework for Malicious Behavior in Distributed Systems. Journal Internet Mathematics, Volume 6, Number 2, March 2009. (Journal version of a PODC 2006 paper.)
- 288. Pascal von Rickenbach, Roger Wattenhofer, and Aaron Zollinger. Algorithmic Models of Interference in Wireless Ad Hoc and Sensor Networks. IEEE/ACM Transactions on Networking, Volume 17, Number 1, Pages 172-185, February 2009. (Journal version of two papers, MobiHoc 2004 and IPDPS 2005.)

- 289. Olga Goussevskaia, Michael Kuhn, Michael Lorenzi, and Roger Wattenhofer. From Web to Map: Exploring the World of Music. Proceedings of the 7th IEEE/WIC/ACM International Conference on Web Intelligence (WI), Sydney, Australia, December 2008.
- 290. Fabian Kuhn, Roger Wattenhofer, and Aaron Zollinger. Ad hoc Networks Beyond Unit Disk Graphs. Journal Springer Wireless Networks, Volume 14, Issue 5, Pages 715-729, October 2008. (Journal version of a DIALM-POMC 2003 paper.)
- 291. Thomas Moscibroda and Roger Wattenhofer. Coloring unstructured radio networks. Distributed Computing, Issue Volume 21, Issue 4, Pages 271-284, October 2008. (Journal version of a SPAA 2005 paper.)
- 292. Marco von Arb, Matthias Bader, Michael Kuhn, and Roger Wattenhofer. VENETA: Serverless Friend-of-Friend Detection in Mobile Social Networking. Proceedings of the 4th IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob), Avignon, France, October 2008.
- 293. Remo Meier and Roger Wattenhofer. ALPS: Authenticating Live Peer-to-Peer Streams. Proceedings of the 27th Annual IEEE International Symposium on Reliable Distributed Systems (SRDS), Naples, Italy, October 2008.
- 294. Christoph Lenzen, Thomas Locher, and Roger Wattenhofer. Clock Synchronization with Bounded Global and Local Skew. Proceedings of the 49th Annual IEEE Symposium on Foundations of Computer Science (FOCS), Philadelphia, Pennsylvania, October 2008.
- 295. Christoph Lenzen and Roger Wattenhofer. Leveraging Linial's Locality Limit. Proceedings of the 22nd International Symposium on Distributed Computing (DISC), Archachon, France, September 2008.
- 296. Olga Goussevskaia, Michael Kuhn, and Roger Wattenhofer. Exploring Music Collections on Mobile Devices. Proceedings of the 10th International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI), Amsterdam, Netherlands, September 2008.
- 297. Olga Goussevskaia, Thomas Moscibroda and Roger Wattenhofer. Local Broadcasting in the Physical Interference Model. ACM SIGACT-SIGOPT International Workshop on Foundations of Mobile Computing (DIALM-POMC, now FOMC), Toronto, Canada, August 2008.

- 298. Johannes Schneider and Roger Wattenhofer. A Log-Star Distributed Maximal Independent Set Algorithm for Growth-Bounded Graphs. Proceedings of the 27th ACM Symposium on Principles of Distributed Computing (PODC), Toronto, Canada, August 2008.
- 299. Yvonne Anne Oswald, Stefan Schmid and Roger Wattenhofer. Tight Bounds for Delay-Sensitive Aggregation. Proceedings of the 27th ACM Symposium on Principles of Distributed Computing (PODC), Toronto, Canada, August 2008.
- 300. Dominic Meier, Yvonne Anne Oswald, Stefan Schmid, and Roger Wattenhofer. On the Windfall of Friendship: Inoculation Strategies on Social Networks. Proceedings of the 9th ACM Conference on Electronic Commerce (EC), Chicago, Illinois, July 2008.
- 301. Bernard Mans, Stefan Schmid, and Roger Wattenhofer. Distributed Disaster Disclosure. Proceedings of the 11th Scandinavian Workshop on Algorithm Theory (SWAT), Gothenburg, Sweden, July 2008.
- 302. Jan Kostka, Yvonne Anne Oswald, and Roger Wattenhofer. Word of Mouth: Rumor Dissemination in Social Networks. Proceedings of the 15th International Colloquium on Structural Information and Communication Complexity (SIROCCO), Villars-sur-Ollon, Switzerland, June 2008.
- 303. Christoph Lenzen, Yvonne Anne Oswald, and Roger Wattenhofer. What Can be Approximated Locally? Proceedings of the 20th ACM Symposium on Parallelism in Algorithms and Architectures (SPAA), Munich, Germany, June 2008.
- 304. Pascal von Rickenbach and Roger Wattenhofer. Decoding Code on a Sensor Node. Proceedings of the 4th IEEE/ACM International Conference on Distributed Computing in Sensor Systems (DCOSS), Santorini Island, Greece, June 2008.
- 305. Olga Goussevskaia and Roger Wattenhofer. Complexity of Scheduling with Analog Network Coding. Proceedings of the ACM International Workshop on Foundations of Wireless Ad Hoc and Sensor Networking and Computing (FOWANC), Hong Kong, China, May 2008.
- 306. Roland Flury and Roger Wattenhofer. Randomized 3D Geographic Routing. Proceedings of the 27th IEEE International Conference on Computer Communications (INFOCOM), Phoenix, Arizona, April 2008.
- 307. Michael Kuhn, Roger Wattenhofer. The Layered World of Scientific Conferences. Proceedings of the 10th Asia Pacific Web Conference (APWEB), Shenyang, China, April 2008.
- 308. Michael Kuhn, Stefan Schmid, and Roger Wattenhofer. Distributed Asymmetric Verification in Computational Grids. Proceedings of the 22nd IEEE International Parallel and Distributed Processing Symposium (IPDPS), Miami, Florida, April 2008.
- 309. Philipp Sommer and Roger Wattenhofer. Symmetric Clock Synchronization in Sensor Networks. Proceedings of the ACM Workshop on Real-World Wireless Sensor Networks (REALWSN), Glasgow, Scotland, April 2008.
- 310. Fabian Kuhn, Roger Wattenhofer, and Aaron Zollinger. An Algorithmic Approach to Geographic Routing in Ad Hoc and Sensor Networks. IEEE/ACM Transactions on Networking, Volume 16, Issue 1, Pages 51-62, February 2008. (Journal version of three papers, DIALM 2002, MobiHoc 2003, PODC 2003.)
- 311. Thomas Locher, Pascal von Rickenbach, and Roger Wattenhofer. Sensor Networks Continue to Puzzle: Selected Open Problems. Invited paper. Proceedings of the 9th International Conference on Distributed Computing and Networking (ICDCN), Kolkata, India, January 2008.

- 312. Stefan Schmid and Roger Wattenhofer. Structuring Unstructured Peer-to-Peer Networks. Proceedings of the 14th Annual IEEE International Conference on High Performance Computing (HiPC), Goa, India, December 2007.
- 313. Raphael Eidenbenz, Yvonne Anne Oswald, Stefan Schmid, and Roger Wattenhofer. Manipulation in Games. Proceedings of the 18th International Symposium on Algorithms and Computation (ISAAC), Sendai, Japan, December 2007.
- 314. Olga Goussevskaia, Michael Kuhn, and Roger Wattenhofer. Layers and Hierarchies in Real Virtual Networks. Proceedings of the 6th IEEE/WIC/ACM International Conference on Web Intelligence (WI), Fremont, California, November 2007.
- 315. Thomas Locher, Remo Meier, Stefan Schmid, and Roger Wattenhofer. Push-to-Pull Peer-to-Peer Live Streaming. Proceedings of the 21st International Symposium on Distributed Computing (DISC), Lemesos, Cyprus, September 2007
- 316. Olga Goussevskaia, Yvonne Anne Oswald, and Roger Wattenhofer. Complexity in Geometric SINR. Proceedings o the 8th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Montreal, Canada, September 2007.
- 317. Thomas Locher, Stefan Schmid and Roger Wattenhofer. Rescuing Tit-for-Tat with Source Coding. Proceedings of the 7th International Conference on Peer-to-Peer Computing (P2P), Galway, Ireland, September 2007.
- 318. Raphael Eidenbenz, Yvonne Anne Oswald, Stefan Schmid, and Roger Wattenhofer. Mechanism Design by Creditability. Proceedings of the 1st International Conference on Combinatorial Optimization and Applications (COCOA), Xi'an, Shannxi, China, August 2007.
- 319. Fabian Kuhn, Thomas Locher, and Roger Wattenhofer. Tight Bounds for Distributed Selection. Proceedings of the 19th ACM Symposium on Parallelism in Algorithms and Architectures (SPAA), San Diego, California, June 2007. (Best paper award.)
- 320. Roland Flury and Roger Wattenhofer. Routing, Anycast, and Multicast for Mesh and Sensor Networks. Proceedings of the 26th Annual IEEE Conference on Computer Communications (INFOCOM), Anchorage, Alaska, May 2007.
- 321. Thomas Moscibroda, Yvonne Anne Oswald, and Roger Wattenhofer. How Optimal are Wireless Scheduling Protocols? Proceedings of the 26th Annual IEEE Conference on Computer Communications (INFOCOM), Anchorage, Alaska, May 2007.
- 322. Nicolas Burri, Pascal von Rickenbach, and Roger Wattenhofer. Dozer: Ultra-Low Power Data Gathering in Sensor Networks. Proceedings of the 6th International Conference on Information Processing in Sensor Networks (IPSN), Cambridge, Massachusetts, April 2007.
- 323. Gabor Cselle, Keno Albrecht, and Roger Wattenhofer. BuzzTrack: Topic Detection and Tracking in Email. Proceedings of the 10th International Conference on Intelligent User Interfaces (IUI), Honolulu, Hawaii, January 2007.

324. Luzius Anderegg, Stephan Eidenbenz, and Roger Wattenhofer. Incentive-Compatible, Energy-Optimal, and Efficient Ad Hoc Networking in a Selfish Milieu. Proceedings of the 40th Hawaii International Conference on System Sciences (HICSS), Waikoloa, Hawaii, January 2007.

- 325. Stefan Schmid and Roger Wattenhofer. Dynamic Internet Congestion with Bursts. Proceedings of the 13th Annual IEEE International Conference on High Performance Computing (HiPC), Bangalore, India, December 2006.
- 326. Nicolas Burri, Pascal von Rickenbach, Roger Wattenhofer, and Yves Weber. Topology Control Made Practical: Increasing the Performance of Source Routing. Proceedings of the 2nd International Conference on Mobile Ad Hoc and Sensor Networks (MSN), Hong Kong, China, December 2006.
- 327. Maurice Herlihy, Fabian Kuhn, Srikantha Tirtapura, and Roger Wattenhofer. Dynamic Analysis of the Arrow Distributed Protocol. Journal ACM Theory of Computing Systems, Volume 39, Number 6, Pages 875-901, November 2006. (Journal version of a SPAA 2004 paper.)
- 328. Thomas Moscibroda, Roger Wattenhofer, and Yves Weber. Protocol Design Beyond Graph-Based Models. Proceedings of the 5th Workshop on Hot Topics in Networks (HotNets), Irvine, California, November 2006.
- 329. Thomas Locher, Patrick Moor, Stefan Schmid, and Roger Wattenhofer. Free Riding in BitTorrent is Cheap. Proceedings of the 5th Workshop on Hot Topics in Networks (HotNets), Irvine, California, November 2006.
- 330. Michael Kuhn and Roger Wattenhofer. Community-Aware Mobile Networking. Proceedings of the 1st International Workshop on Mobile Services and Personalized Environments (MSPE), Aachen, Germany, November 2006.
- 331. Dominik Grolimund, Luzius Meisser, Stefan Schmid, and Roger Wattenhofer. Cryptree: A Folder Tree Structure for Cryptographic File Systems. Proceedings of the 25th Symposium on Reliable Distributed Systems (SRDS), Leeds, United Kingdom, October 2006
- 332. Thomas Locher and Roger Wattenhofer. Oblivious Gradient Clock Synchronization. Proceedings of the 20th International Symposium on Distributed Computing (DISC), Stockholm, Sweden, September 2006.
- 333. Thomas Locher, Stefan Schmid, and Roger Wattenhofer. eQuus: A Provably Robust and Locality-Aware Peer-to-Peer System. Proceedings of the 6th International Conference on Peer-to-Peer Computing (P2P), Cambridge, United Kingdom, September 2006.
- 334. Stefan Schmid and Roger Wattenhofer. A TCP with Guaranteed Performance in Networks with Dynamic Congestion and Random Wireless Losses. Proceedings of the 2nd Annual International Wireless Internet Conference (WICON), Boston, Massachussetts, August 2006.
- 335. Thomas Moscibroda, Stefan Schmid, and Roger Wattenhofer. When Selfish Meets Evil: Byzantine Players in a Virus Inoculation Game. Proceedings of the 25th ACM Symposium on Principles of Distributed Computing (PODC), Denver, Colorado, July 2006.

- 336. Fabian Kuhn and Roger Wattenhofer. On the Complexity of Distributed Graph Coloring. Proceedings of the 25th ACM Symposium on Principles of Distributed Computing (PODC), Denver, Colorado, July 2006.
- 337. Thomas Moscibroda, Stefan Schmid, and Roger Wattenhofer. On the Topologies Formed by Selfish Peers. Proceedings of the 25th ACM Symposium on Principles of Distributed Computing (PODC), Denver, Colorado, July 2006.
- 338. Fabian Kuhn, Thomas Moscibroda, and Roger Wattenhofer. Fault-Tolerant Clustering in Ad Hoc and Sensor Networks. Proceedings of the 26th International Conference on Distributed Computing Systems (ICDCS), Lisboa, Portugal, July 2006.
- 339. Roger Wattenhofer. Sensor Networks: Distributed Algorithms Reloaded or Revolutions? Invited paper. Proceedings of the 13th Colloquium on Structural Information and Communication Complexity (SIROCCO), Chester, United Kingdom, July 2006.
- 340. Nicolas Burri, Roland Schuler, and Roger Wattenhofer. YETI: A TinyOS Plug-in for Eclipse. Proceedings of the 2nd ACM Workshop on Real-World Wireless Sensor Networks (REALWSN), Uppsala, Sweden, June 2006.
- 341. Dominik Grolimund, Luzius Meisser, Stefan Schmid, and Roger Wattenhofer. Havelaar: A Robust and Efficient Reputation System for Active Peer-to-Peer Systems. Proceedings of the 1st Workshop on the Economics of Networked Systems (NetEcon), Ann Arbor, Michigan, June 2006.
- 342. Fabian Kuhn, Stefan Schmid, Joest Smit, and Roger Wattenhofer. A Blueprint for Constructing Peerto-Peer Systems Robust to Dynamic Worst-Case Joins and Leaves. Proceedings of the 14th IEEE International Workshop on Quality of Service (IWQoS), New Haven, Conneticut, June 2006.
- 343. Thomas Moscibroda, Roger Wattenhofer, and Aaron Zollinger. Topology Control Meets SINR: The Scheduling Complexity of Arbitrary Topologies. Proceedings of the 7th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Florence, Italy, May 2006.
- 344. Roland Flury and Roger Wattenhofer. MLS: An Efficient Location Service for Mobile Ad Hoc Networks. Proceedings of the 7th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Florence, Italy, May 2006.
- 345. Thomas Moscibroda and Roger Wattenhofer. The Complexity of Connectivity in Wireless Networks. Proceedings of 25th Annual Conference of Computer Communications (INFOCOM), Barcelona, Spain, April 2006.
- 346. Thomas Moscibroda, Pascal von Rickenbach, and Roger Wattenhofer. Analyzing the Energy-Latency Trade-off during the Deployment of Sensor Networks. Proceedings of 25th Annual Conference of Computer Communications (INFOCOM), Barcelona, Spain, April 2006.
- 347. Stefan Schmid and Roger Wattenhofer. Algorithmic Models for Sensor Networks. Invited paper. Proceedings of the 14th International Workshop on Parallel and Distributed Real-Time Systems (WPDRTS), Island of Rhodes, Greece, April 2006.
- 348. Hagit Attiya, Fabian Kuhn, Greg Plaxton, Mirjam Wattenhofer, and Roger Wattenhofer. Efficient Adaptive Collect Using Randomization. Journal on Distributed Computing, 18(3), Pages 179-188, February 2006. (Journal version of a DISC 2004 paper with additional author.)

- 349. Thomas Moscibroda, Stefan Schmid, and Roger Wattenhofer. On the Topologies Formed by Selfish Peers. Proceedings of the 5th International Workshop on Peer-to-Peer Systems (IPTPS), Santa Barbara, California, February 2006.
- 350. Razvan Cristescu, Baltasar Beferull-Lozano, Martin Vetterli, and Roger Wattenhofer. Network Correlated Data Gathering with Explicit Communication: NP-Completeness and Algorithms. IEEE/ACM Transactions on Networking, Volume 14, Number 1, Pages 41-54, February 2006. (Journal version of an Infocom 2004 paper by the first three authors.)
- 351. Keno Albrecht and Roger Wattenhofer. The Trooth Recommendation System. Proceedings of the International Conference on Internet and Web Applications and Services (ICIW), Guadeloupe, French Caribbean, February 2006.
- 352. Fabian Kuhn, Thomas Moscibroda, and Roger Wattenhofer. The Price of Being Near-Sighted. Proceedings of the 17th ACM-SIAM Symposium on Discrete Algorithms (SODA), Miami, Florida, January 2006.

- 353. Regina O'Dell and Roger Wattenhofer. Theoretical Aspects of Connectivity-Based Multi-Hop Positioning. Theoretical Computer Science 344:1, Pages 47-68, November 2005. (Journal version of a PerCom 2004 paper.)
- 354. Fabian Kuhn, Thomas Moscibroda, Tim Nieberg, and Roger Wattenhofer. Fast Deterministic Distributed Maximal Independent Set Computation on Growth-Bounded Graphs. Proceedings of the 19th International Symposium on Distributed Computing (DISC), Cracow, Poland, September 2005
- 355. Regina O'Dell and Roger Wattenhofer. Information Dissemination in Highly Dynamic Graphs. Proceedings of the 3rd ACM Workshop on Foundations of Mobile Computing (DIALM-POMC, now FOMC), Cologne, Germany, September 2005.
- 356. Thomas Moscibroda and Roger Wattenhofer. Minimizing Interference in Ad Hoc and Sensor Networks. Proceedings of the 3rd ACM Workshop on Foundations of Mobile Computing (DIALM-POMC, now FOMC), Cologne, Germany, September 2005.
- 357. Fabian Kuhn, Thomas Moscibroda, Tim Nieberg, and Roger Wattenhofer. Local Approximation Schemes for Ad Hoc and Sensor Networks. Proceedings of the 3rd ACM Workshop on Foundations of Mobile Computing (DIALM-POMC, now FOMC), Cologne, Germany, September 2005.
- 358. Roger Wattenhofer. Algorithms for Ad Hoc and Sensor Networks. Elsevier Journal on Computer Communications, Volume 28(13), Pages 1498-1504, August 2005. (A similar article was published as "From Algorithms to Sensor Networks" by the PIK Magazine, April/June 2005.)
- 359. Fabian Kuhn, Pascal von Rickenbach, Roger Wattenhofer, Emo Welzl, and Aaron Zollinger. Interference in Cellular Networks: The Minimum Membership Set Cover Problem. Proceedings of the 11th International Computing and Combinatorics Conference (COCOON), Kunming, China, August 2005.
- 360. Keno Albrecht, Nicolas Burri, and Roger Wattenhofer. Spamato An Extendable Spam Filter System. Proceedings of the 2nd Conference on Email and Anti-Spam (CEAS), Stanford, California, July 2005.

- 361. Thomas Moscibroda and Roger Wattenhofer. Facility Location: Distributed Approximation. Proceedings of the 23rd ACM Symposium on Principles of Distributed Computing (PODC), Las Vegas, Nevada, July 2005.
- 362. Thomas Moscibroda and Roger Wattenhofer. Maximal Independent Sets in Radio Networks. Proceedings of the 23rd ACM Symposium on Principles of Distributed Computing (PODC), Las Vegas, Nevada, July 2005.
- 363. Fabian Kuhn, Thomas Moscibroda, and Roger Wattenhofer. On the Locality of Bounded Growth. Proceedings of the 23rd ACM Symposium on Principles of Distributed Computing (PODC), Las Vegas, Nevada, July 2005.
- 364. Phuong Hoai Ha, Philippas Tsigas, Mirjam Wattenhofer, and Roger Wattenhofer. Efficient Multi-Word Locking Using Randomization. Proceedings of the 23rd ACM Symposium on Principles of Distributed Computing (PODC), Las Vegas, Nevada, July 2005.
- 365. Thomas Moscibroda and Roger Wattenhofer. Coloring Unstructured Radio Networks. Proceedings of the 17th ACM Symposium on Parallelism in Algorithms and Architectures (SPAA), Las Vegas, Nevada, July 2005.
- 366. Martin Fussen, Roger Wattenhofer, and Aaron Zollinger. Interference Arises at the Receiver. Proceedings of the International Conference on Wireless Networks, Communications, and Mobile Computing (WirelessCom), Maui, Hawaii, June 2005.
- 367. Michael O'Dell, Regina O'Dell, Mirjam Wattenhofer, and Roger Wattenhofer. Lost in Space Or Positioning in Sensor Networks. Proceedings of the Workshop on Real-World Wireless Sensor Networks (REALWSN), Stockholm, Sweden, June 2005.
- 368. Nicolas Burri, Roger Wattenhofer, and Aaron Zollinger. SANS: A Simple Ad Hoc Network Simulator. Proceedings of the Conference on Educational Media, Hypermedia, and Telecommunications (ED-Media), Montreal, Canada, June 2005.
- 369. Fabian Kuhn and Roger Wattenhofer. Constant-Time Distributed Dominating Set Approximation. Springer Journal for Distributed Computing, Volume 17, Number 4, Pages 303-310, May 2005. (Journal version of a PODC 2003 paper.)
- 370. Thomas Locher, Roger Wattenhofer, and Aaron Zollinger. Received-Signal-Strength-Based Logical Positioning Resilient to Signal Fluctuation. Proceedings of the 1st ACIS International Workshop on Self-Assembling Wireless Networks (SAWN), Towson, Maryland, May 2005.
- 371. Mirjam Wattenhofer, Roger Wattenhofer, and Peter Widmayer. Geometric Routing without Geometry. Proceedings of the 12th International Colloquium on Structural Information and Communication (SIROCCO), Le Mont Saint Michel, France, May 2005.
- 372. Thomas Moscibroda, and Roger Wattenhofer. Maximizing the Lifetime of Dominating Sets. Proceedings of the 5th IEEE International Workshop on Algorithms for Wireless, Mobile, Ad Hoc and Sensor Networks (WMAN), Denver, Colorado, April 2005.
- 373. Pascal von Rickenbach, Stefan Schmid, Roger Wattenhofer, and Aaron Zollinger. A Robust Interference Model for Wireless Ad-Hoc Networks. Proceedings of the 5th IEEE International Workshop on Algorithms for Wireless, Mobile, Ad Hoc and Sensor Networks (WMAN), Denver, Colorado, April 2005.

- 374. Fabian Kuhn, Stefan Schmid, and Roger Wattenhofer. A Self-Repairing Peer-to-Peer System Resilient to Dynamic Adversarial Churn. Proceedings of the 4th International Workshop on Peer-to-Peer Systems (IPTPS), Ithaca, New York, February 2005.
- 375. Li Li, Joseph Halpern, Victor Bahl, Yi-Min Wang, and Roger Wattenhofer. A Cone-Based Distributed Topology-Control Algorithm for Wireless Multi-Hop Networks. IEEE/ACM Transactions on Networking, Volume 13, Number 1, Pages 147-159, February 2005. (Journal version of a PODC 2001 paper.)

- 376. Thomas Moscibroda and Roger Wattenhofer. Efficient Computation of Maximal Independent Sets in Unstructured Multi-Hop Radio Networks. Proceedings of the 1st IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS), Fort Lauderdale, Florida, October 2004.
- 377. Hagit Attiya, Fabian Kuhn, Mirjam Wattenhofer, and Roger Wattenhofer. Efficient Adaptive Collect Using Randomization. Proceedings of the 18th Annual Conference on Distributed Computing (DISC), Amsterdam, Netherlands, October 2004. (Best student paper award)
- 378. Mirjam Wattenhofer and Roger Wattenhofer. Distributed Weighted Matching. Submitted to Conference. Proceedings of the 18th Annual Conference on Distributed Computing (DISC), Amsterdam, Netherlands, October 2004.
- 379. Thomas Moscibroda, Regina O'Dell, Mirjam Wattenhofer, and Roger Wattenhofer. Virtual Coordinates in Ad hoc and Sensor Networks. Proceedings of the 2nd ACM Joint Workshop on Foundations of Mobile Computing (DIALM-POMC, now FOMC), Philadelphia, Pennsylvania, October 2004.
- 380. Pascal von Rickenbach and Roger Wattenhofer. Gathering Correlated Data in Sensor Networks. Proceedings of the 2nd ACM Joint Workshop on Foundations of Mobile Computing (DIALM-POMC, now FOMC), Philadelphia, Pennsylvania, October 2004.
- 381. Fabian Kuhn, Thomas Moscibroda, and Roger Wattenhofer. Unit Disk Graph Approximation. Proceedings of the 2nd ACM Joint Workshop on Foundations of Mobile Computing (DIALM-POMC, now FOMC), Philadelphia, Pennsylvania, October 2004.
- 382. Fabian Kuhn, Thomas Moscibroda, and Roger Wattenhofer. Polylogarithmic Clustering Algorithms in Multihop Radio Networks. Proceedings of the 10th Annual International Conference on Mobile Computing and Networking (MobiCom), Philadelphia, Pennsylvania, September 2004. (Best presentation award.)
- 383. Fabian Kuhn, Thomas Moscibroda, and Roger Wattenhofer. Radio Network Clustering from Scratch. Proceedings of the 12th Annual European Symposium on Algorithms (ESA), Bergen, Norway, September 2004.
- 384. Giovanna Melideo, Paolo Penna, Guido Proietti, Roger Wattenhofer, and Peter Widmayer. Truthful Mechanisms for Generalized Utilitarian Problems. IFIP TCS 2004:167-180 Proceedings of the 3rd International Conference on Theoretical Computer Science (TCS), Toulouse, France, August 2004.

- 385. Keno Albrecht, Ruedi Arnold, and Roger Wattenhofer. Aggregating Information in Peer-to-Peer Systems for Improved Join and Leave. Proceedings of the 4th International Conference on Peer-to-Peer Computing (P2P), Zurich, Switzerland, August 2004.
- 386. Costas Busch, Malik Magdon-Ismail, Marios Mavricolas, and Roger Wattenhofer. O(Congestion + Dilation) Bufferless Routing on Trees. Proceedings of the European Conference on Parallel Computing (Euro-Par), Pisa, Italy, August 2004.
- 387. Fabian Kuhn, Thomas Moscibroda, and Roger Wattenhofer. What Cannot be Computed Locally! Proceedings of the 23rd ACM Symposium on Principles of Distributed Computing (PODC), St. John's, Newfoundland, Canada, July 2004. (Best student paper award)
- 388. Fabian Kuhn, Thomas Moscibroda, and Roger Wattenhofer. Efficient Clustering in Unstructured Radio Networks. Proceedings of the 23rd ACM Symposium on Principles of Distributed Computing (PODC), St. John's, Newfoundland, Canada, July 2004.
- 389. Fabian Kuhn and Roger Wattenhofer. Dynamic Analysis of the Arrow Distributed Protocol. Proceedings of the 16th ACM Symposium on Parallelism in Algorithms and Architectures (SPAA), Barcelona, Spain, June 2004.
- 390. Mirjam Wattenhofer and Roger Wattenhofer. Fast and Simple Algorithms for Weighted Perfect Matching. Proceedings of the 3rd Cologne Twente Workshop on Graphs and Combinatorial Optimization (CTW), Como, Italy, May 2004.
- 391. Martin Burkhart, Pascal von Rickenbach, and Roger Wattenhofer, Aaron Zollinger. Does Topology Control Reduce Interference? Proceedings of the 5th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Tokyo, Japan, May 2004.
- 392. Roger Wattenhofer and Peter Widmayer. The Counting Pyramid An Adaptive Distributed Counting Scheme. Journal of Parallel and Distributed Computing, Volume 64, Issue 4 Pages 449-460, April 2004. (Journal version of a SIROCCO 1998 paper.)
- 393. Roger Wattenhofer and Aaron Zollinger. XTC: A Practical Topology Control Algorithm for Ad-Hoc Networks. Proceedings of the 4th International IEEE Workshop on Algorithms for Wireless, Mobile, Ad Hoc and Sensor Networks (WMAN), Santa Fe, New Mexico, April 2004.
- 394. Regina Bischoff and Roger Wattenhofer. Analyzing Connectivity-Based Multi-Hop Ad-Hoc Positioning. Proceedings of the 2nd Annual IEEE International Conference on Pervasive Computing and Communications (PerCom), Orlando, Florida, March 2004.
- 395. Roger Wattenhofer. Ad-Hoc and Sensor Networks: Worst-Case and Average-Case. Invited paper. Proceedings of the 18th International Zurich Seminar on Communications (IZS), Zurich, Switzerland, February 2004.

396. Keno Albrecht, Ruedi Arnold, and Roger Wattenhofer. Clippee: A Large-Scale Client/Peer System. Proceedings of the International Workshop on Large-Scale Group Communication, Florence, Italy, October 2003.

- 397. Gustavo Alonso, Evangelos Kranakis, Cindy Sawchuk, Roger Wattenhofer, and Peter Widmayer. Probabilistic Protocols for Node Discovery in Ad Hoc Multi-channel Broadcast Networks. Proceedings of the 2nd International Conference on AD-HOC Networks and Wireless (ADHOC-NOW), Montreal, Canada, October 2003.
- 398. Fabian Kuhn, Roger Wattenhofer, and Aaron Zollinger. Ad-Hoc Networks Beyond Unit Disk Graphs. Proceedings of the 1st ACM Joint Workshop on Foundations of Mobile Computing (DIALM-POMC, now FOMC), San Diego, California, September 2003.
- 399. Fabian Kuhn and Roger Wattenhofer. Constant-Time Distributed Dominating Set Approximation. Proceedings of the 22nd ACM Symposium on Principles of Distributed Computing (PODC), Boston, Massachusetts, July 2003. (Best student paper award)
- 400. Fabian Kuhn, Roger Wattenhofer, Aaron Zollinger, and Yan Zhang. Geometric Ad-Hoc Routing: Of Theory and Practice. Proceedings of the 22nd ACM Symposium on Principles of Distributed Computing (PODC), Boston, Massachusetts, July 2003.
- 401. Fabian Kuhn, Roger Wattenhofer, and Aaron Zollinger. Worst-Case Optimal and Average-Case Efficient Geometric Ad-Hoc Routing. Proceedings of the The 4th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Annapolis, Maryland, June 2003.
- 402. Gustavo Alonso, Evangelos Kranakis, Roger Wattenhofer, and Peter Widmayer. Probabilistic Protocols for Node Discovery in Ad-Hoc Single Broadcast Networks. Proceedings of the 3rd International Workshop on Wireless, Mobile and Ad Hoc Networks (WMAN), Nice, France, April 2003.

- 403. Atul Adya, William J. Bolosky, Miguel Castro, Gerald Cermak, Ronnie Chaiken, John R. Douceur, Jon Howell, Jacob R. Lorch, Marvin Theimer, and Roger Wattenhofer. FARSITE: Federated, Available, and Reliable Storage for an Incompletely Trusted Environment. Proceedings of the 5th Symposium on Operating Systems Design and Implementation (OSDI), Boston, Massachusetts, December 2002. (Patents in US, Europe, and China.)
- 404. Fabian Kuhn and Roger Wattenhofer, Aaron Zollinger. Asymptotically Optimal Geometric Mobile Ad-Hoc Routing. Proceedings of the 6th International Workshop on Discrete Algorithms and Methods for Mobile Computing and Communications (DIALM, now FOMC), Atlanta, Georgia, September 2002.
- 405. Joachim Giesen, Roger Wattenhofer, and Aaron Zollinger. Towards a Theory of Peer-to-Peer Computability. Proceedings of the 9th International Colloquium on Structural Information and Communication (SIROCCO), Andros, Greece, June 2002.

2001

406. John Douceur and Roger Wattenhofer. Competitive Hill-Climbing Strategies for Replica Placement in a Distributed File System. Proceedings of the 15th International Symposium on Distributed Computing (DISC), Lisbon, Portugal, October 2001.

- 407. John Douceur and Roger Wattenhofer. Optimizing File Availability in a Serverless Distributed File System. Proceedings of the 20th IEEE Symposium on Reliable Distributed Systems (SRDS), New Orleans, Louisiana, October 2001.
- 408. Abha Ahuja, Craig Labovitz, Madanlal Musuvathi, Srinivasan Venkatachary, and Roger Wattenhofer. BGP-CT: A First Step Towards Fast Internet Route Fail-Over. Microsoft Research Tech Report. US Patent.
- 409. John Douceur, and Roger Wattenhofer. Modeling Replica Placement in a Distributed File System: Narrowing the Gap between Competitive Analysis and Simulation. Proceedings of the 9th Annual European Symposium on Algorithms (ESA), Aarhus, Denmark, August 2001.
- 410. Maurice Herlihy, Srikanta Tirthapura, and Roger Wattenhofer. Competitive Concurrent Distributed Queuing. Proceedings of the 20th ACM Symposium on Principles of Distributed Computing (PODC), Newport, Rhode Island, August 2001.
- 411. Li Li, Joseph Halpern, Victor Bahl, Yi-Min Wang, and Roger Wattenhofer. Analysis of a Cone-Based Distributed Topology Control Algorithm for Wireless Multihop Networks. Proceedings of the 20th ACM Symposium on Principles of Distributed Computing (PODC), Newport, Rhode Island, August 2001.
- 412. John Douceur and Roger Wattenhofer. Large-Scale Simulation of Replica Placement Algorithms for a Serverless Distributed File System. Proceedings of the 9th International Symposium on Modeling, Analysis and Simulation on Computer and Telecommunication Systems (MASCOTS), Cincinnati, Ohio, August 2001.
- 413. Costas Busch, Maurice Herlihy, and Roger Wattenhofer. Routing without Flow Control. Proceedings of 13th ACM Symposium on Parallel Algorithms and Architectures (SPAA), Crete Island, Greece, July 2001.
- 414. Maurice Herlihy, Srikanta Tirthapura, and Roger Wattenhofer. Ordered Multicast and Distributed Swap. Operating Systems Review 35, Pages 85-96, June 2001. (Journal Version of a PODC MWS 2000 paper.)
- 415. Craig Labovitz, Roger Wattenhofer, Srinivasan Venkatachary, and Abha Ahuja. The Impact of Internet Policy and Topology on Delayed Routing Convergence. Proceedings of 20th Annual Joint Conference of the IEEE Computer and Communications Societies (INFOCOM), Anchorage, Alaska, April 2001.
- 416. Roger Wattenhofer, Li Li, Victor Bahl, and Yi-Min Wang. Distributed Topology Control for Power Efficient Operation in Multihop Wireless Ad Hoc Networks. Proceedings of 20th Annual Joint Conference of the IEEE Computer and Communications Societies (INFOCOM), Anchorage, Alaska, April 2001. (US Patent.)

417. Craig Labovitz, Roger Wattenhofer, Srinivasan Venkatachary, and Abha Ahuja. Resilience Characteristics of the Internet Backbone Routing Infrastructure. Proceedings of the 3rd Information Survivability Workshop, Boston, Massachusetts, October 2000.

- 418. Maurice Herlihy, Srikanta Tirthapura, and Roger Wattenhofer. Ordered Multicast and Distributed Swap. Proceedings of the PODC Middleware Symposium, Portland, Oregon, July 2000.
- 419. Costas Busch, Maurice Herlihy, and Roger Wattenhofer. Hard-Potato Routing. Proceedings of the 32nd Annual ACM Symposium on Theory of Computing (STOC), Portland, Oregon, May 2000.
- 420. Costas Busch, Maurice Herlihy, and Roger Wattenhofer. Randomized Greedy Hot-Potato Routing. Proceedings of the 11th ACM-SIAM Symposium on Discrete Algorithms (SODA), San Francisco, California, January 2000.

Before 2000

- 421. Roger Wattenhofer and Peter Widmayer. An Inherent Bottleneck in Distributed Counting. Journal of Parallel and Distributed Computing (JPDC), Vol. 49, Pages 135-145, 1998. (Journal version of a PODC 1997 paper.)
- 422. Roger Wattenhofer and Peter Widmayer. The Counting Pyramid An Adaptive Distributed Counting Scheme. Proceedings of the 5th International Colloquium on Structural Information & Communication Complexity (SIROCCO), Amalfi, Italy, June 1998.
- 423. Roger Wattenhofer and Peter Widmayer. A unified analysis of distributed counting with queueing theory. Proceedings of the 1st Workshop on Distributed Data and Structures (WDAS), Orlando, Florida, March 1998.
- 424. Eduard Bugnion, Thomas Roos, Roger Wattenhofer, and Peter Widmayer. Space filling curves versus random walks. Proceedings of the 1st Algorithmic Foundations of Geographic Information Systems Workshop, LNCS 1340, Springer, October 1997.
- 425. Roger Wattenhofer and Peter Widmayer. An Inherent Bottleneck in Distributed Counting. Proceedings of the 16th Annual ACM Symposium on Principles of Distributed Computing (PODC), Santa Barbara, California, August 1997.

Books & Monographs

- 1. Roger Wattenhofer. Mastering Distributed Algorithms. Inverted Forest Publishing. March 2020.
- 2. Roger Wattenhofer. Blockchain Science: Distributed Ledger Technology. Inverted Forest Publishing, January 2019.
- 3. Roger Wattenhofer, Jinchuan Chen, Qiang Lin, Yunzhi Xue, Qing Zhu. The Science of the Blockchain. Translation of the Book to Simple Chinese, September 2017.

- 4. Roger Wattenhofer. Distributed Ledger Technology: The Science of the Blockchain. Inverted Forest Publishing, March 2017.
- 5. Roger Wattenhofer. The Science of the Blockchain. Inverted Forest Publishing, January 2016.
- 6. Dorothea Wagner and Roger Wattenhofer (Editors). Algorithms for Sensor and Ad Hoc Networks. Lecture Notes in Computer Science (LNCS) Volume 4621, Springer, June 2007.
- 7. Roger Wattenhofer. Distributed Counting How to Bypass Bottlenecks. Ph.D. thesis 12826, ETH Zurich, 1998. (Thesis was awarded with an ETH medal.)

Book Chapters & Scientific Magazines

- 1. Magnús M. Halldórsson, Roger Wattenhofer. Wireless Network Algorithmics. Computing and Software Science: 141-160, 2019
- 2. Christoph Lenzen and Roger Wattenhofer. Distributed Algorithms for Wireless Networks. Invited survey article in the Philosophical Transactions of the Royal Society A, 370, 11-26, 2012.
- 3. Stefan Schmid and Roger Wattenhofer. Peer-to-Peer. Chapter in Book: Encyclopedia of Parallel Computing, ed. David Padua, Springer Verlag, September 2011.
- 4. Olga Goussevskaia, Yvonne-Anne Pignolet and Roger Wattenhofer. Efficiency of Wireless Networks: Approximation Algorithms for the Physical Interference Model. Foundations and Trends in Networking, Volume 4, Issue 3, 2010.
- 5. Stefan Schmid and Roger Wattenhofer. Modeling Sensor Networks. Chapter in Book: Algorithms and Protocols for Wireless, Mobile Ad Hoc Networks, ed. Azzedine Boukerche, John Wiley & Sons Inc, 2008.
- 6. Fabian Kuhn, Thomas Locher, and Roger Wattenhofer. Distributed Selection: A Missing Piece of Data Aggregation. The article is accompanied with a technical perspective by Hagit Attiya. Communications of the ACM (CACM), Section Research Highlights, Volume 51, Issue 9, 93-99, September 2008. (Invited magazine version of a SPAA 2007 paper.)
- 7. Thomas Moscibroda and Roger Wattenhofer. Local Computation in Unstructured Radio Networks. Chapter in Book: Encyclopedia of Algorithms, Springer Verlag, 2008.
- 8. Michael Kuhn and Roger Wattenhofer. The Theoretic Center of Computer Science. ACM SIGACT NEWS, Volume 38, Number 4, 2007.
- 9. James Aspnes, Costas Busch, Shlomi Dolev, Panagotia Fatourou, Christos Georgiou, Alex Shvartsman, Paul Spirakis, and Roger Wattenhofer. Eight Open Problems in Distributed Computing. Bulletin of the European Association for Theoretical Computer Science, No. 90, 2006.
- 10. Keno Albrecht, Fabian Kuhn, and Roger Wattenhofer. Dependable Peer-to-Peer Systems Withstanding Dynamic Adversarial Churn. Dependable Systems: Software, Computing, Networks. Lecture Notes in Computer Science (LNCS) Volume 4028, Springer, 2006.

- 11. Thomas Moscibroda and Roger Wattenhofer. How to Structure Chaos: Initializing Ad-Hoc and Sensor Networks. Chapter in Book: Theoretical and Algorithmic Aspects of Sensor, Ad Hoc Wireless and Peerto-Peer Networks, CRC Press, 2005.
- 12. Roger Wattenhofer and Peter Widmayer. Parallele Präfixsummation: Das Schweizer Taschenmesser der parallelen Algorithmen. Chapter in Book: Prinzipien des Algorithmenentwurfs, ed. T. Ottmann, Spektrum Akademischer Verlag, Heidelberg, 103-121, 1997.
- In addition our work has been covered in articles by popular newspapers and magazines, e.g. NZZ, Sonntagszeitung, or Technology Review, or by popular weblogs such as Gizmodo or Lifehacker.

Editorial Work

- 1. Arthur Gervais, Philipp Jovanovic, Dawn Song, Roger Wattenhofer, Proceedings of the 1st ACM CCS Workshop on Decentralized Finance and Security (CCS DeFi), Virtual, November 2021.
- 2. Polly Huang, Roger Wattenhofer. Proceedings of the 20th International Conference on Information Processing in Sensor Networks (IPSN), Virtual, May 2021.
- 3. Prosenjit Bose, Leszek Antoni Gasieniec, Kay Römer, and Roger Wattenhofer. Proceedings of the 11th International Symposium on Algorithms and Experiments for Wireless Sensor Networks (ALGOSENSORS), Patras, Greece, August 2015.
- 4. Artur Czumaj, Kurt Mehlhorn, Andrew Pitts, and Roger Wattenhofer. Proceedings of the 39th International Colloquium on Automata, Languages and Programming (ICALP), Warwick, United Kingdom, July 2012.
- 5. Roger Wattenhofer. Guest Editor of Special Issue on PODC 2007. Distributed Computing. Volume 21, Issue 5, February 2009.
- 6. Vijay Garg, Roger Wattenhofer, and Kishore Kothapalli. Proceedings of the 10th International Conference on Distributed Computing and Networking (ICDCN) 2009, Hyderabad, India, January 2009.
- 7. Indranil Gupta and Roger Wattenhofer. Proceedings of the 26th ACM Symposium on Principles of Distributed Computing (PODC) 2007, Portland, Oregon, August 2007.
- 8. Subhash Suri, Roger Wattenhofer, and Peter Widmayer. Geometry in Sensor Networks, Schloss Dagstuhl, Germany, April 2007.
- 9. James Anderson and Roger Wattenhofer. Proceedings of the 9th International Conference on Principles of Distributed Systems (OPODIS), Pisa, Italy, December 2005.
- 10. P. R. Kumar, Andrew T. Campbell, and Roger Wattenhofer. Proceedings of the 6th ACM Interational Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Urbana-Champaign, Illinois, May 2005.

Selected Talks

- 1. Wireless Networks Algorithms: Looking Back & Moving Forward. Invited talk. International Symposium on Algorithmics of Wireless Networks (ALGOSENSORS), Potsdam, Germany, September 2022.
- 2. Graph Neural Networks as Application of Distributed Algorithms. Keynote talk. ApPLIED Workshop, Salerno, Italy, July 2022.
- 3. Networks, Dynamics, Algorithms, and Learning. Keynote talk. 1st Symposium on Algorithmic Foundations of Dynamic Networks (SAND), Online, March 2022.
- 4. Panel on Latest Developments in DeFi, DeFi22 Workshop, organized by The Swiss National Bank and the BIS Innovation Hub, Zurich, Switzerland, April 2022.
- 5. Networks, Dynamics, Algorithms, and Learning. Keynote Talk. 1st Symposium on Algorithmic Foundations of Dynamic Networks (SAND), Online, March 2022.
- 6. Graph Neural Networks. Keynote Talk. 18th International Conference on Distributed Computing and Intelligent Technology (ICDCIT), Online, January 2022.
- 7. Cascade: Asynchronous Proof-of-Stake. Invited Talk. Vienna Security Forum (ViSP), Online, November 2021.
- 8. Are Financial Networks Highly Complex? Invited Talk. BIS Fintech Seminar Series, Online, November 2021.
- 9. Krypto-Gold Zahlen wir bald mit Bitcoin? Invited Talk. ETH Science City, October 2021.
- 10. Democracy without Politicians. Invited Talk. AI Policy Conference, Online, September 2021.
- 11. Should We Care About Central Bank Digital Currency? Keynote Talk. Theory and Practice of Blockchains (TPBC), Online, June 2021.
- 12. Are Financial Networks Highly Complex? Invited Talk. Swiss National Bank Seminar Series, Online, June 2021.
- 13. Next Economic Crisis? It's the Network, Stupid! Keynote Speech. 29th International Conference on Computer Communications and Networks (ICCCN), originally in Honolulu, Hawaii, but then moved online, August 2020.
- 14. An Asynchronous Blockchain Without Consensus? Invited Talk. Workshop on Distributed Computing in Dynamic Networks, originally in Houston, Texas, but then moved online, May 2020.
- 15. Blockchain. Invited PhD School Tutorial. Grand Sasso Science Institute (GSSI) and 26th International Colloquium on Structural Information and Communication Complexity (Sirocco), L'Aquila, Italy, July 2019.
- 16. Brauche ich eine Blockchain? Invited Talk. Finanz und Wirtschaft Forum, Rüschlikon, Switzerland, June 2019.
- 17. Shopping for IT. Invited Talk. 12th Shopping Center Forum, Kloten, Switzerland, May 2019.

- 18. Kryptogeld. Invited Talk. Fokus Sicherheitsdruck, Falschgeld und Kryptowährung, Landesmuseum, Swiss National Museum, Zurich, Switzerland, April 2019.
- 19. Location, Location, Location, and Time. Invited Talk. Winter Enrichment Program (WEP) at KAUST University, Saudi Arabia, February 2019.
- 20. Does a Blockchain Need Altruism? Invited Talk. 2nd Conference Crypto-Currencies in a Digital Economy (CCConf), Berlin, Germany, November 2018.
- 21. The Role of Cryptography in Distributed Systems. Invited Talk. 22nd Workshop on Elliptic Curve Cryptography (ECC), Osaka, Japan, November 2018.
- 22. Introduction to Blockchain. Invited Tutorial. Autumn School on Elliptic Curves, Osaka, Japan, November 2018.
- 23. Algorithms For and Against the Cloud. Keynote Talk. 4th International Symposium on Algorithmic Aspects of Cloud Computing (AlgoCloud), Helsinki, Finland, August 2018.
- 24. Happy 10th Birthday, Nakamoto! Keynote Talk. International Conference on Distributed Computing and Networking (ICDCN), Varanasi, India, January 2018.
- 25. What Should We Learn From Nakamotos Blockchain? Keynote Talk. 21st International Conference on Principles of Distributed Systems (OPODIS), Lisbon, Portugal, December 2017.
- 26. Blockchain Scalability. Invited Talk. Workshop on Algorithms for Big Data, Tel Aviv, Israel, November 2017.
- 27. Is There any Practical Theory? Keynote Talk. 15th ACM Conference on Embedded Networked Sensor Systems (SenSys), Delft, Netherlands, November 2017.
- 28. An Efficient Blockchain? Keynote Talk. 1st International Workshop on Cryptocurrencies and Blockchain Technology (CBT), Oslo, Norway, September 2017.
- 29. Blockchains: Foundations and Security. EBSIS Summer School on Distributed Event Based Systems and Related Topics, Villars-sur-Ollon, Switzerland July 2018.
- 30. Die Blockchain Eine Basis für die Zukunft? Invited Talk. Future Day, Frankfurt, Germany, June 2017.
- 31. Consensus. Summer School LASER Software Technology for Blockchains, Bitcoin and Distributed Trust Systems, Elba Island, Italy, June 2018.
- 32. Cryptocurrencies: Bitcoin, Blockchain & Beyond. Invited Talk. Austrian National Bank, Vienna, Austria, May 2017.
- 33. GeldDebatten: Finanzindustrie und Gesellschaft. Panel Discussion. Miller's Studio, Zurich, Switzerland, April 2017.
- 34. Metric Matching: Cheap or Stable ... or Fast? Keynote Talk. 4th Day on Computational Game Theory (AGT), Zurich, Switzerland, February 2017.
- 35. Scaling Bitcoin: Micropayment Channel Networks. Invited Talk. 1st ForDigital Blockchain Workshop, Karlsruhe, Germany, February 2017.
- 36. Cryptocurrencies: Bitcoin, Blockchain & Beyond. Keynote Talk. 10th Heinz Nixdorf Symposium, Paderborn, Germany, September 2016.

- 37. Distributed Computing: Graph Drawing Unplugged. Invited Talk. 24th International Symposium on Graph Drawing and Network Visualization (GD), Athens, Greece, September 2016.
- 38. Foundations of Distributed Computing. Lecture Series. 17th Max Planck Advanced Course on the Foundations of Computer Science (ADFOCS), Saarbrücken, Germany, August 2016.
- 39. Cryptocurrencies: Bitcoin, Blockchain and Beyond. Closed Door Presentation. Bank for International Settlements (BIS), Basel, Switzerland, July 2016.
- 40. Cryptocurrencies: From Technology to Economy. Invited Talk. Conference on Alternative Financial and Monetary Architectures, Zurich, Switzerland, June 2016
- 41. Consensus. Lecture. IACR Summer School on Blockchain Technologies, Corfu, Greece, May 2016.
- 42. Sensor Networks, Where Theory Meets Practice. 5th International Conference on Sensor Networks (SENSORNETS), Rome, Italy, February 2016.
- 43. Bitcoin: Synchronization and Sharing of Transactions. 2rd Workshop on Cloud Services for Synchronisation and Sharing (CS3), Zurich, Switzerland, January 2016.
- 44. Is Bitcoin Stable, Secure, and Scalable? Keynote Talk. 16th International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS), Edmonton, Alberta, Canada, August 2015.
- 45. Wireless Networks: Do Not Disturb My Circles. Invited Talk. Workshop on Geometric Networks at Symposium of Computational Geometry (SOCG), Eindhoven, Netherlands, June 2015.
- 46. Ad Hoc Networks: Pushing Mobile and Wireless Communication Since 1970. Keynote Talk. 15th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Philadelphia, Pennsylvania, August 2014.
- 47. Managing Dynamic Networks: Distributed or Centralized Control? Invited Talk. Joint talk of 6th Workshop on Theoretical Aspects of Dynamic Distributed Systems (TADDS) and 1st Workshop on Distributed Software Defined Networks (DSDN), Paris, France, July 2014.
- 48. Time is Money! Distinguished Guest Speaker. IST Austria Young Scientist Symposium, May 2014.
- 49. Is Network Science a Science? Keynote Talk. 6th IEEE International Workshop on Network Science for Communication Networks (NetSciCom), Toronto, Canada, May 2014.
- 50. Think Global, Act Local. Keynote Talk. 13th Scandinavian Symposium and Workshops on Algorithm Theory (SWAT), Helsinki, Finland, July 2012.
- 51. Distributed Complexity Theory. Prize for Innovations in Distributed Computing Reception. 19th International Colloquium on Structural Information and Communication Complexity (SIROCCO), Reykjavík, Iceland, July 2012.
- 52. Distributed Algorithms for Wireless Multihop Networks. Invited Tutorial. 13th International Conference on Distributed Computing and Networking (ICDCN), Hong Kong, China, January 2012.
- 53. Physical Algorithms. Keynote Talk. 5th China Wireless Sensor Network Conference (CWSN), Beijing, China, September 2011.
- 54. Your Next Mobile Phone! Invited Talk. 16th Symposium on Privacy and Security (SPS), Zurich, Switzerland, September 2011.

- 55. Theory Meets Practice: It's about Time. Invited Talk. Networking Lecture Series Workshop, TU Berlin, Germany, July 2011.
- 56. Distributed Algorithms for Wireless Multihop Networks. Invited Tutorial. 10th International Conference on Ad Hoc Networks and Wireless (ADHOC-NOW), Paderborn, Germany, July 2011.
- 57. Distributed Algorithms. Invited Tutorial. Workshop on Sublinear Algorithms. Bertinoro, Italy, May 2011.
- 58. Physical Algorithms. Keynote Talk. 37th International Colloquium on Automata, Languages and Programming (ICALP), Bordeaux, France, July 2010.
- 59. Distributed Algorithms. Lecture Series. DIMAP Summer School on Approximation and Randomized Algorithms, Warwick, UK, July 2010.
- 60. Wireless Algorithms. Keynote Talk. 1st Workshop on Realistic Models for Algorithms in Wireless Networks (WRAWN), Bergen, Norway, June 2010.
- 61. Theory Meets Practice: It's About Time! Keynote Talk. 12èmes Rencontres Francophones sur les Aspects Algorithmiques de Télécommunications (AlgoTel), Belle Dune, France, May 2010.
- 62. Theory Meets Practice: It's About Time! Keynote Talk. 36th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM), Špindlerův Mlýn, Czech Republic, January 2010.
- 63. Self-Stabilization: From Efficacy to Efficiency. Keynote Talk. 11th International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS), Lyon, France, November 2009.
- 64. Ad Hoc and Sensor Networks. Block Course, Salerno, Italy, July 2009.
- 65. Theory for Sensor Networks, What is it Good For?! Academic Year Inauguration Lecture, University La Sapienza, Rome, Italy, November 2008.
- 66. Theory for Sensor Networks, What is it Good For?! Invited Talk. 5th SIGACT-SIGOPS Workshop on Foundations of Mobile Computing (DIALM-POMC, now FOMC), Toronto, Canada, August 2008.
- 67. Algorithms for Sensor Networks, What is it Good For?! Keynote Talk. 4th International Workshop on Algorithmic Aspects of Wireless Sensor Networks (ALGOSENSORS), Reykjavik, Iceland, July 2008.
- 68. Algorithms for Sensor Networks. Invited Lecture. Summer School on Graphs and Algorithms in Communication Networks, Bertinoro, Italy, May 2008.
- 69. Worst-Case Capacity in Wireless Networks. Keynote Talk. 4th Workshop on Resource Allocation in Wireless Networks (RAWNET), Berlin, Germany, March 2008.
- 70. Sensor Networks: Distributed Computing and Networking Get Together to Gather Data. Keynote Talk. 9th International Conference on Distributed Computing and Networking (ICDCN), Kolkata, India, January 2008.
- 71. The Complexity of Connectivity in Wireless Networks. Plenary Speech. 2nd Annual Workshop on Wireless Systems Advanced Research and Development (WISARD), Bangalore, India, January 2008.
- 72. Sensor Networks: Distributed Algorithms Reloaded or Revolutions? Plenary Speech. Graphs and Algorithms in Communication Networks (GRAAL), Zurich, Switzerland, September 2006.

- 73. Sensor Networks: Distributed Algorithms Reloaded or Revolutions? Keynote Talk. 13th Colloquium on Structural Information and Communication Complexity (SIROCCO), Chester, United Kingdom, July 2006.
- 74. MACbeth: The Three Witches of Media Access Theory. Keynote Talk. IEEE International Workshop on Foundations and Algorithms for Wireless Networking (FAWN), Pisa, Italy, March 2006.
- 75. Algorithms for Sensor Networks. Invited Tutorial. 3rd European Workshop on Wireless Sensor Networks (EWSN), Zurich, Switzerland, February 2006.
- 76. Networking and Distributed Systems. Invited Tutorial. Post-Graduate Lecture Series in Computer Science, Manila, Philippines, September 2005.
- 77. P2P: Past 2 Present. Keynote Talk. 5th IEEE International Conference on Peer-to-Peer Computing (P2P), Constance, Germany, August 2005.
- 78. AlgHocNet: Algorithms for Ad Hoc Networks, Case Study Clustering. Keynote Talk. 4th Annual Mediterranean Ad Hoc Networking Workshop (MedHocNet), Ile de Porquerolles, France, June 2005.
- 79. Ad Hoc and Sensor Networks. Distinguished Speakers Seminar, TU Vienna, Vienna, Austria, May 2005.
- 80. Algorithms for Ad Hoc and Sensor Networks. Keynote Talk. IPA "Herfstdagen" fall school, Callantsoog, Netherlands, November 2004.
- 81. Algorithms for Ad Hoc and Sensor Networks. Plenary Speech. Colloquium Algorithms for Large and Complex Networks, Karlsruhe, Germany, July 2004.
- 82. Wireless Networking: Graph Theory Unplugged. Keynote Talk. 30th Workshop on Graph-Theoretic Concepts in Computer Science (WG), Bonn, Germany, June 2004.
- 83. Clustering and Topology Control in Ad Hoc and Sensor Networks. Keynote Talk. International Workshop on Theoretical and Algorithmic Aspects of Wireless Ad Hoc, Sensor, and Peer-to-Peer Networks (TAWN), Chicago, Illinois, June 2004.