

42nd International Symposium on Theoretical Aspects of Computer Science

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Edited by

Olaf Beyersdorff

Michał Pilipczuk

Elaine Pimentel

Nguyễn Kim Thắng



Editors

Olaf Beyersdorff

Friedrich Schiller University Jena, Germany
olaf.beyersdorff@uni-jena.de

Michał Pilipczuk

University of Warsaw, Poland
michal.pilipczuk@mimuw.edu.pl

Elaine Pimentel

University College London, UK
e.pimentel@ucl.ac.uk

Nguyễn Kim Thăng

Grenoble INP, Université Grenoble-Alpes, France
kim-thang.nguyen@univ-grenoble-alpes.fr

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■ Preface

The International Symposium on Theoretical Aspects of Computer Science (STACS) conference series is an internationally leading forum for original research on theoretical aspects of computer science.

STACS 2025 consists of two tracks, A and B. Track A is dedicated to algorithms and data structures, complexity and games. Track B covers automata, logic, semantics and theory of programming.

STACS is held alternately in France and in Germany. This year's conference, taking place in Jena (Germany) from March 4 to March 7, is the 42nd in the series. Previous meetings took place in Paris (1984), Saarbrücken (1985), Orsay (1986), Passau (1987), Bordeaux (1988), Paderborn (1989), Rouen (1990), Hamburg (1991), Cachan (1992), Würzburg (1993), Caen (1994), München (1995), Grenoble (1996), Lübeck (1997), Paris (1998), Trier (1999), Lille (2000), Dresden (2001), Antibes (2002), Berlin (2003), Montpellier (2004), Stuttgart (2005), Marseille (2006), Aachen (2007), Bordeaux (2008), Freiburg (2009), Nancy (2010), Dortmund (2011), Paris (2012), Kiel (2013), Lyon (2014), München (2015), Orléans (2016), Hannover (2017), Caen (2018), Berlin (2019), Montpellier (2020), Saarbrücken (2021, taking place virtually), Marseille (2022, taking place virtually), Hamburg (2023) and Clermont-Ferrand (2024).

The STACS 2025 call for papers led to 259 submissions (202 for Track A and 57 for Track B). Each paper was assigned to three program committee members who, at their discretion, asked external reviewers for reports. STACS 2025 employed a lightweight double-blind reviewing process and incorporated an author rebuttal period in the reviewing process.

The committee selected 72 papers for presentation at the conference (55 for Track A and 17 for Track B), implying an acceptance rate of approximately 28%. We are thankful to all individuals, institutions, and organizations who contributed to making STACS 2025 a success. We thank all authors for submitting their work to STACS 2025. Our deepest thanks go to all Program Committee members and external expert reviewers for carefully reading the submissions, providing constructive comments, and for participating in extensive discussions that helped in selecting the strongest papers for the technical program of the conference. The very high quality of the submissions made the selection an extremely difficult task. We also thank the Steering Committee members of STACS for providing overall guidance.

We would like to express our gratitude to the three invited speakers: Daniel Dadush (CWI Amsterdam), Anupam Das (University of Birmingham), and Susanna F. de Rezende (Lund University) and to Albert Atserias (UPC Barcelona) as the tutorial speaker.

STACS 2025 was preceded on 3 and 4 March 2025 by a workshop on algorithms, complexity and logic (Theorietag), a workshop under the auspices of the GI interest groups on Algorithms, Complexity and Logic. Invited talks at the workshop were given by Heribert Vollmer (Hanover) and Sebastian Wild (Marburg). We thank Christian Komusiewicz (University of Jena) for co-organising the pre-conference workshop. As in 2024, STACS 2025 was accompanied by an extended stay support program, allowing participants to combine their conference visit with a research trip to a nearby university.

Full versions of selected outstanding papers from STACS 2025 are invited for submission to the journal *TheoretCS*. Further selected papers from Track A are invited to the *ACM Transactions on Computation Theory* and selected papers from Track B to *Logical Methods in Computer Science*.



We thank the LIPIcs team for assisting us in the publication process and the final production of the proceedings. These proceedings contain extended abstracts of the accepted contributions and abstracts of the tutorial and invited talks. The authors retain their rights and make their work available under a Creative Commons license. The proceedings are published electronically by Schloss Dagstuhl – Leibniz-Center for Informatics within their LIPIcs series.

Finally, we would like to thank Friedrich Schiller University of Jena, the Carl Zeiss Foundation, the Interactive Inference project, Inverso, the University Clermont Auvergne and LIMOS for their support. Our special thanks go to Silvia Blaser, Benjamin Böhm, Marlene Gründel, Tim Hoffmann, Kaspar Kasche, Agnes Schleitzer and Luc Spachmann – the local organising team at the University of Jena – for all their help with the organisation, including the webpages, the registration and the social events.

March 2025

Olaf Beyersdorff
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Nguyễn Kim Thắng

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Joel Rybicki	Marck van der Vegt	Niels van der Weide
Johannes Lengler	Marco Bressan	Nikhil Balaji
Jonas Ellert	Marek Sokółowski	Nikhil Bansal
Jonas Sénizergues	Marin Bougeret	Nikhil Mande
Joseph Landsberg	Mark Bun	Niko Hastrich
Joshua Brakensiek	Markus Anders	Nima Anari
Julien Baste	Markus Hecher	Ninad Rajgopal
Kaave Hosseini	Markus Lohrey	Nir Piterman
Karine Altisen	Martin Böhm	Noam Touitou
Karol Pokorski	Martin Koutecký	Nobutaka Shimizu
Karthik C. S.	Martin Lange	Norbert Zeh
Kazuyuki Amano	Martin S. Krejca	Nutan Limaye
Kevin Schewior	Masayuki Miyamoto	Olivier Idir
Khaled Elbassioni	Massimo Equi	Omrit Filtser
Kiril Bangachev	Massimo Lauria	Pål Grønås Drange
Kirill Simonov	Mateusz Skomra	Pamela Fleischmann
Konstantinos Tsakalidis	Mateusz Wasykiewicz	Pan Peng
Krzysztof Fleszar	Mathieu Mari	Panagiotis Charalampopoulos
Kunihiro Wasa	Matias Korman	Panos Giannopoulos
Kyungjin Cho	Matt Kovacs-Deak	Pasin Manurangsi
Lars Jaffke	Matthew Gray	Paul Duetting
Lasse Wulf	Matthew Kwan	Paulin Jacobé De Naurois
Laurent Bienvenu	Matthias Bentert	Paweł Rzażewski
Laurent Feuilloley	Matthias Kaul	Pei Wu
Laurent Gourves	Matthias Mnich	Peter Kling
Lazar Milenkovic	Max Deppert	Peter Manohar
Lê Thành Dũng Nguyen	Max Dupré La Tour	Petr Golovach
Leo Wennmann	Maximilian Merz	Peyman Afshani
León Bohn	Maximilian Weininger	Philipp Hieronymi
Leonid Barenboim	Meike Neuwohner	Philipp Schepper
Leqi Zhu	Michael Bekos	Pierre Bergé
Leroy Chew	Michael Blondin	Pierre Coucheney
Liam Roditty	Michael Kompatscher	Pierre Ohlmann
Lina Vandré	Michael Lampis	Prafullkumar Tale


Prahlad Narasimhan Kasthurirangan	Sándor Kisfaludi-Bak	Tianyi Zhang
Prajakta Nimbhorkar	Sarah Maria Morell	Tim Oosterwijk
Pramod Ganapathi	Sariel Har-Peled	Tim Randolph
Pranjal Dutta	Sathiya Venkatesan Ramesh	Timothy Gomez
Prantar Ghosh	Sathwik Karnik	Tobias Winkler
Prashanth Amireddy	Sebastian Berndt	Toghrul Karimov
Qi Ye	Sebastian Haslebacher	Tom van der Zanden
Qipeng Liu	Sebastian Meyer	Tomohiro Koana
Quentin Bramas	Sebastian Pfau	Toshiki Saitoh
R. Govind	Sebastian Schubert	Tristan Kraft
R.B. Sandeep	Sebastian Siebertz	Ullrich Hustadt
Radosław Piórkowski	Sebastian Zur	Vaishali Surianarayanan
Radu Curticapean	Seeun William Umboh	Vida Dujmović
Rahul Vaze	Sergey Kitaev	Viet Cuong Than
Rainer Gemulla	Sergey Pupyrev	Vignesh Viswanathan
Rajendra Kumar	Sergio Cabello	Viktorii Korchemna
Rajesh Chitnis	Sergio Rajsbaum	Vincent Chau
Ramanujan M. Sridharan	Shaofeng H.-C. Jiang	Vincent Cohen-Addad
Raul Lopes	Shaul Almagor	Vishwas Bhargava
Reiko Heckel	Shibashis Guha	Vladislav Ryzhikov
Reilly Browne	Shinwoo An	Warut Suksompong
Rémy Belmonte	Shreyas Srinivas	Wei Zhan
Renzo Gomez	Simon D. Fink	Weitian Tong
Reuben Rowe	Simon Döring	Wenjie Fang
Reut Levi	Simon Weber	Will Perkins
Rhea Jain	Sorrachai Yingchareonthawornchai	William Kretschmer
Riccardo Michielan	Stanislav Živný	Wojciech Janczewski
Richard Mayr	Stefan Kiefer	Wojciech Nadara
Rini Wisnu Wardhani	Stefan Weltge	Wolfgang Mulzer
Rob van Stee	Susanna F. de Rezende	Xiao Peng
Robert Mercas	Susanne Albers	Xiaojun Dong
Robin Vacus	Suthee Ruangwises	Ya-Chun Liang
Rodrigo Raya	Sven Jäger	Yanlin Chen
Rohit Gurjar	Sylvain Schmitz	Yann Strozecki
Ronnie Pavlov	Taeheon Ahn	Yasamin Nazari
Roohani Sharma	Taha El Ghazi El Houssaini	Yassine Hamoudi
Ruben F.A. Verhaegh	Talya Eden	Yinzhan Xu
Ruben Hoeksma	Tamio-Vesa Nakajima	Yogesh Dahiya
Sablik Mathieu	Tanmay Inamdar	Yongjie Yang
Saket Saurabh	Thekla Hamm	Yota Otachi
Saladi Rahul	Themistoklis Melissourgos	Youssef Oualhadj
Samah Ghazawi	Thi Quynh Trang Vo	Yu Chen
Samarth Tiwari	Thomas Colcombet	Yun Kuen Cheung
Sami Davies	Thomas Erlebach	Yunchao Liu
Sampson Wong	Thomas Lavastida	Yurong Chen
Sander Gribling	Thomas Seiller	Yusuke Kobayashi
Sándor Fekete	Thorben Tröbst	Zixuan Zhu

■ List of Authors


- Akanksha Agrawal  (5)
Indian Institute of Technology Madras, India
- Jungho Ahn  (6)
Korea Institute for Advanced Study (KIAS),
Seoul, South Korea
- Shyan Akmal  (7)
INSAIT, Sofia University "St. Kliment
Ohridski", Bulgaria
- Yaroslav Alekseev  (8)
Technion - Israel Institute of Technology, Haifa,
Israel
- Sharareh Alipour  (9)
Department of Computer Science, Tehran
Institute for Advanced Studies (TeIAS), Khatam
University, Tehran, Iran
- Quentin Aristote  (10)
Université Paris Cité, CNRS, Inria, IRIF,
F-75013, Paris, France
- Srinivasan Arunachalam  (11)
IBM Quantum, Almaden, CA, USA
- Albert Atserias  (1)
Universitat Politècnica de Catalunya, Barcelona,
Spain; Centre de Recerca Matemàtica,
Bellaterra, Spain
- Christine Awofeso  (12)
Birkbeck, University of London, UK
- Samuel Baguley  (13)
Hasso Plattner Institute, University of Potsdam,
Germany
- Aritra Banik  (14)
National Institute of Science, Education and
Research, An OCC of Homi Bhabha National
Institute, Bhubaneswar, India
- Max Bannach  (15)
European Space Agency, Advanced Concepts
Team, Noordwijk, The Netherlands
- Nastaran Behrooznia (16)
Department of Computer Science, University of
Warwick, Coventry, UK
- Matthias Bentert (17)
University of Bergen, Norway
- Marcin Bienkowski  (18)
University of Wrocław, Poland
- Benjamin Bordaïs  (19)
TU Dortmund University, Center for
Trustworthy Data Science and Security,
University Alliance Ruhr, Dortmund, Germany
- Roberto Borelli  (20)
University of Udine, Italy
- Andrei A. Bulatov (60)
Simon Fraser University, Burnaby, Canada
- Jarosław Byrka  (18)
University of Wrocław, Poland
- Antonin Callard  (21)
Normandie Univ, UNICAEN, ENSICAEN,
CNRS, GREYC, 14000, Caen, France
- Rutger Campbell (22)
Discrete Mathematics Group, Institute for Basic
Science, Daejeon, South Korea
- Rémy Cerda  (23)
Aix-Marseille Université, CNRS, I2M, France;
Université Paris Cité, CNRS, IRIF, F-75013,
Paris, France
- Yijia Chen  (65)
Shanghai Jiao Tong University, China
- Keerti Choudhary  (24)
Department of Computer Science and
Engineering, IIT Delhi, India
- Aleksander Bjørn Christiansen  (25)
Technical University of Denmark, Lyngby,
Denmark
- Nikolai Chukhin (26)
Neapolis University Pafos, Cyprus; JetBrains
Research, Paphos, Cyprus
- Nathan Claudet  (27)
Inria Mocqua, LORIA, CNRS, Université de
Lorraine, F-54000 Nancy, France
- Radu Curticapean  (28)
University of Regensburg, Germany; IT
University of Copenhagen, Denmark
- Daniel Dadush  (2)
Centrum Wiskunde & Informatica, Amsterdam,
The Netherlands
- Anupam Das  (3)
University of Birmingham, UK


Susanna F. de Rezende  (4)
Lund University, Sweden


Dariusz Dereniowski  (29)
Faculty of Electronics, Telecommunications and Informatics, Gdańsk University of Technology, Poland

Stéphane Devismes  (30)
Laboratoire MIS, Université de Picardie, 33 rue Saint Leu - 80039 Amiens cedex 1, France

Rishabh Dhiman (24)
Department of Computer Science and Engineering, IIT Delhi, India

Simon Döring  (28)
Max Planck Institute for Informatics, Saarbrücken, Germany; Saarland University (SIC), Saarbrücken, Germany


Eduard Eiben  (52)
Department of Computer Science, Royal Holloway University of London, UK


Leah Epstein  (31)
Department of Mathematics, University of Haifa, Israel


Ermiya Farokhnejad  (9)
Department of Computer Science, University of Warwick, Coventry, UK


Nick Fischer  (32)
INSAIT, Sofia University "St. Kliment Ohridski", Bulgaria


Fedor V. Fomin  (14, 17)
University of Bergen, Norway


Florent Foucaud  (33)
Université Clermont Auvergne, CNRS, Mines Saint-Étienne, Clermont Auvergne INP, LIMOS, 63000 Clermont-Ferrand, France

Pierre Fraigniaud  (34)
Institut de Recherche en Informatique Fondamentale (IRIF), CNRS, Université Paris Cité, France

Ameet Gadekar  (35)
CISPA Helmholtz Center for Information Security, Saarbrücken, Germany


Ajinkya Gaikwad  (36)
Indian Institute of Science Education and Research, Pune, India


Esther Galby  (33)
Department of Computer Science and Engineering, Chalmers University of Technology and University of Gothenburg, Sweden

Jorge Gallego-Hernández  (37)
IMDEA Software Institute, Madrid, Spain; Universidad Politécnica de Madrid, Spain


Arnab Ganguly  (38)
University of Wisconsin, Whitewater, WI, USA

Luca Geatti  (20)
University of Udine, Italy


Ebrahim Ghorbani  (39)
Hamburg University of Technology, Institute for Algorithms and Complexity, Hamburg, Germany

Daniel Gibney  (38)
University of Texas at Dallas, TX, USA

Petr A. Golovach  (14, 17)
University of Bergen, Norway


Sergey Goncharov  (40)
University of Birmingham, UK


Patrick Greaves  (12)
Birkbeck, University of London, UK


Jakob Greilhuber  (41)
TU Wien, Austria; CISPA Helmholtz Center for Information Security, Saarbrücken, Germany

Dima Grigoriev (8)
CNRS, Mathématique, Université de Lille, Villeneuve d'Ascq, 59655, France

Bruno Guillon (22)
Université Clermont Auvergne, Clermont Auvergne INP, LIMOS, CNRS, Clermont-Ferrand, France

Mohit Gurumukhani  (42)
Cornell University, Ithaca, NY, USA

Sariel Har-Peled  (43)
Department of Computer Science, University of Illinois at Urbana-Champaign, IL, USA

Tim A. Hartmann  (44)
CISPA Helmholtz Center for Information Security, Saarbrücken, Germany


Deborah Haun  (45)
Karlsruhe Institute of Technology, Germany

- Markus Hecher  (15)
Univ. Artois, CNRS UMR 8188, Centre de Recherche en Informatique de Lens (CRIL), 6230, France; Computer Science and Artificial Intelligence Lab, Massachusetts Institute of Technology, Cambridge, MA, USA
- Klaus Heeger  (47)
Department of Industrial Engineering and Management, Ben-Gurion University of the Negev, Beer-Sheva, Israel
- Benjamin Hellouin de Menibus  (48)
Université Paris-Saclay, CNRS, Laboratoire Interdisciplinaire des Sciences du Numérique, 91400, Orsay, France
- Quentin Hillebrand  (49)
The University of Tokyo, Japan
- Edward A. Hirsch  (8)
Department of Computer Science, Ariel University, Israel
- Martin Hoefler  (50)
Department of Computer Science, RWTH Aachen University, Germany
- Dirk Hofmann  (40)
CIDMA, University of Aveiro, Portugal
- Felix Hommelsheim  (51)
University of Bremen, Germany
- Séhane Bel Houari-Durand  (52)
ENS Lyon, France
- Pavel Hrubeš  (53)
Institute of Mathematics of ASCR, Czech Republic
- Úrsula Hébert-Johnson  (46)
University of California, Santa Barbara, CA, USA
- David Ilcinkas  (30)
Univ. Bordeaux, CNRS, Bordeaux INP, LaBRI, UMR 5800, F-33400 Talence, France
- Tanmay Inamdar  (14, 35)
Indian Institute of Technology Jodhpur, India
- Hugo Jacob  (6)
LIRMM, Université de Montpellier, CNRS, Montpellier, France
- Satyabrata Jana  (14)
University of Warwick, UK
- Stacey Jeffery  (54)
QuSoft, CWI, Amsterdam, The Netherlands; University of Amsterdam, The Netherlands
- Łukasz Jeż  (18)
University of Wrocław, Poland
- Pushkar S. Joglekar  (53)
Vishwakarma Institute of Technology, Pune, India
- Colette Johnen  (30)
Univ. Bordeaux, CNRS, Bordeaux INP, LaBRI, UMR 5800, F-33400 Talence, France
- Jean Christoph Jung  (55)
TU Dortmund University, Germany
- Mamadou Moustapha Kanté  (22)
Université Clermont Auvergne, Clermont Auvergne INP, LIMOS, CNRS, Clermont-Ferrand, France
- Julia Katheder  (56)
Wilhelm-Schickard-Institut für Informatik, Universität Tübingen, Germany
- Michael Kaufmann  (56)
Wilhelm-Schickard-Institut für Informatik, Universität Tübingen, Germany
- Matthias Kaul  (57)
Hamburg University of Technology, Institute for Algorithms and Complexity, Hamburg, Germany; University of Bonn, Germany
- Yasushi Kawase  (59)
The University of Tokyo, Japan
- Piotr Kawalek  (58)
TU Wien, Austria; Jagiellonian University in Kraków, Poland
- Amirhossein Kazemini  (60)
Simon Fraser University, Burnaby, Canada
- Liana Khazaliya  (33)
Technische Universität Wien, Austria
- Stefan Kiefer  (61)
Department of Computer Science, University of Oxford, UK
- Eun Jung Kim  (22)
KAIST, Daejeon, South Korea; CNRS, France
- Evangelos Kipouridis  (32)
Max Planck Institute for Informatics, Saarland Informatics Campus, Saarbrücken, Germany
- Jonas Klausen  (32)
BARC, University of Copenhagen, Denmark

- Tomohiro Koana  (7, 62)
Utrecht University, The Netherlands; Research
Institute for Mathematical Sciences, Kyoto
University, Japan
- Zhuan Khye Koh (2)
Centrum Wiskunde & Informatica, Amsterdam,
The Netherlands
- Petr Kolman  (63)
Department of Applied Mathematics, Faculty of
Mathematics and Physics, Charles University,
Prague, Czech Republic
- Jerdrzej Kołodziejcki  (55)
TU Dortmund University, Germany
- Alexander S. Kulikov  (26)
JetBrains Research, Paphos, Cyprus
- Hitendra Kumar (36)
Indian Institute of Science Education and
Research, Pune, India
- Noleen Köhler  (6, 22)
University of Leeds, UK
- Oded Lachish  (12)
Birkbeck, University of London, UK
- Manuel Lafond  (64)
Department of Computer Science, Université de
Sherbrooke, Canada
- Jonah Leander Hoff (39)
Hamburg University of Technology, Institute for
Algorithms and Complexity, Hamburg, Germany
- Asaf Levin  (31)
Faculty of Data and Decisions Science, The
Technion, Haifa, Israel
- Shaohua Li  (33)
School of Computer Science and Engineering,
Central South University, Changsha, China
- Shuangle Li  (65)
Nanjing University, China
- Bingkai Lin  (65)
Nanjing University, China
- Yuwei Liu  (65)
Shanghai Jiao Tong University, China
- Zhenwei Liu  (51)
Zhejiang University, Hangzhou, China;
University of Bremen, Germany
- Bruno Loff  (66)
LASIGE, Faculdade de Ciências, Universidade
de Lisboa, Portugal
- Daniel Lokshtanov  (5, 46)
University of California, Santa Barbara, CA,
USA
- Aliaume Lopez  (67)
University of Warsaw, Poland
- Kelin Luo  (57)
University of Bonn, Germany; University at
Buffalo, NY, USA
- Weidong Luo  (64)
Department of Computer Science, Université de
Sherbrooke, Canada
- Alitzel López Sánchez  (64)
Department of Computer Science, Université de
Sherbrooke, Canada
- Soumen Maity (36)
Indian Institute of Science Education and
Research, Pune, India
- Alessio Mansutti  (37)
IMDEA Software Institute, Madrid, Spain
- Dániel Marx  (44)
CISPA Helmholtz Center for Information
Security, Saarbrücken, Germany
- Yannic Maus  (13)
TU Graz, Austria
- Frédéric Mazoit  (30)
Univ. Bordeaux, CNRS, Bordeaux INP, LaBRI,
UMR 5800, F-33400 Talence, France
- Fionn Mc Inerney  (33)
Telefónica Scientific Research, Barcelona, Spain
- Nicole Megow  (51)
University of Bremen, Germany
- Laura Merker  (45)
Karlsruhe Institute of Technology, Germany
- Ivan Mihajlin (26)
JetBrains Research, Paphos, Cyprus
- Alexey Milovanov  (66)
LASIGE, Faculdade de Ciências, Universidade
de Lisboa, Portugal
- Matthias Mnich  (39, 57)
Hamburg University of Technology, Institute for
Algorithms and Complexity, Hamburg, Germany


- Hendrik Molter  (47)
Department of Computer Science, Ben-Gurion
University of the Negev, Beer-Sheva, Israel
- Marco Montali  (20)
Free University of Bozen-Bolzano, Italy
- Angelo Montanari  (20)
University of Udine, Italy
- Tobias Mömke  (9)
Department of Computer Science, University of
Augsburg, Germany
- Torsten Mütze  (16)
Institut für Mathematik, Universität Kassel,
Germany; Department of Theoretical Computer
Science and Mathematical Logic, Charles
University, Prague, Czech Republic
- Tomohiro Nakayoshi  (59)
The University of Tokyo, Japan
- Bento Natura (2)
Columbia University, New York, NY, USA
- Daniel Neider  (19)
TU Dortmund University, Center for
Trustworthy Data Science and Security,
University Alliance Ruhr, Dortmund, Germany
- Daniel Neuen  (28)
University of Regensburg, Germany; Max Planck
Institute for Informatics, Saarbrücken, Germany
- Minh Hang Nguyen  (34)
Institut de Recherche en Informatique
Fondamentale (IRIF), CNRS, Université Paris
Cité, France
- Lê Thành Dũng (Tito) Nguyễn  (68)
CNRS & Aix-Marseille University, France
- Damian Niwiński  (69)
Institute of Informatics, University of Warsaw,
Poland
- Pedro Nora  (40)
Radboud Universiteit, Nijmegen, The
Netherlands
- Koji Nuida  (72)
Institute of Mathematics for Industry (IMI),
Kyushu University, Fukuoka, Japan; National
Institute of Advanced Industrial Science and
Technology (AIST), Tokyo, Japan
- Neil Olver (2)
London School of Economics and Political, UK
- Fahad Panolan  (5)
School of Computer Science, University of Leeds,
UK
- Paweł Parys  (69)
Institute of Informatics, University of Warsaw,
Poland
- Galina Pass (54)
QuSoft, Amsterdam, The Netherlands;
University of Amsterdam, The Netherlands
- Boaz Patt-Shamir  (70)
School of Electrical Engineering, Tel Aviv
University, Israel
- Ramamohan Paturi (42)
Department of Computer Science and
Engineering, University of California San Diego,
La Jolla, CA, USA
- Christophe Paul  (6)
LIRMM, Université de Montpellier, CNRS,
Montpellier, France
- Léo Paviet Salomon  (21)
Université de Lorraine, CNRS, Inria, LORIA,
54000, Nancy, France
- Ami Paz  (34)
Laboratoire Interdisciplinaire des Sciences du
Numérique (LISN), CNRS, Université
Paris-Saclay, France
- Simon Perdrix  (27)
Inria Mocqua, LORIA, CNRS, Université de
Lorraine, F-54000 Nancy, France
- Pacôme Perrotin  (48)
Université Paris-Saclay, CNRS, Laboratoire
Interdisciplinaire des Sciences du Numérique,
91400, Orsay, France
- Sergey Pupyrev  (45, 56)
Menlo Park, CA, USA
- Saladi Rahul  (43)
Indian Institute of Science (IISc), Bangalore,
India
- Felix Reidl  (12)
Birkbeck, University of London, UK
- Amadeus Reinald  (6)
LIRMM, Université de Montpellier, CNRS,
Montpellier, France
- Adi Rosén (70)
CNRS and Université Paris Cité, France


- Eva Rotenberg  (25)
Technical University of Denmark, Lyngby,
Denmark
- Rajarshi Roy  (19)
Department of Computer Science, University of
Oxford, UK
- Janosch Ruff  (13)
Hasso Plattner Institute, University of Potsdam,
Germany
- Andrew Ryzhikov  (61)
Department of Computer Science, University of
Oxford, UK
- Heiko Röglin  (57)
Universität Bonn, Germany
- Michael Saks (42)
Department of Mathematics, Rutgers University,
Piscataway, NJ, USA
- Saket Saurabh  (5, 14, 36)
The Institute of Mathematical Sciences, HBNI,
Chennai, India; Department of Informatics,
University of Bergen, Norway
- Louis Schatzki  (11)
Electrical and Computer Engineering, University
of Illinois Urbana-Champaign, IL, USA
- Conrad Schecker  (50)
Institute for Computer Science, Goethe
University Frankfurt, Germany
- Philipp Schepper  (41)
CISPA Helmholtz Center for Information
Security, Saarbrücken, Germany
- Kevin Schewior  (50)
Department of Mathematics and Computer
Science, University of Cologne, Germany;
University of Southern Denmark, Odense,
Denmark
- Patrick Schnider  (71)
Department of Computer Science, ETH Zürich,
Switzerland
- Lutz Schröder  (40)
Friedrich-Alexander-Universität
Erlangen-Nürnberg, Germany
- Rahul Shah  (38)
Louisiana State University, Baton Rouge, LA,
USA
- Roohani Sharma  (33, 36)
University of Bergen, Norway
- Tetsuo Shibuya  (49)
The University of Tokyo, Japan
- Kazumasa Shinagawa  (72)
Ibaraki University, Ibaraki, Japan; National
Institute of Advanced Industrial Science and
Technology (AIST), Tokyo, Japan
- George Skretas  (13)
Hasso Plattner Institute, University of Potsdam,
Germany
- Michał Skrzypczak  (69)
Institute of Informatics, University of Warsaw,
Poland
- Linus Stalder (71)
Department of Computer Science, ETH Zürich,
Switzerland
- Vorapong Suppakitpaisarn  (49)
The University of Tokyo, Japan
- Prafullkumar Tale  (33)
Indian Institute of Science Education and
Research Pune, India
- Navid Talebanfar  (42)
University of Sheffield, UK
- Sharma V. Thankachan  (38)
North Carolina State University, Raleigh, NC,
USA
- Mikkel Thorup  (32)
BARC, University of Copenhagen, Denmark
- Anastasiia Tkachenko  (73)
Kahlert School of Computing, University of
Utah, Salt Lake City, UT, USA
- Noam Touitou  (74)
Unaffiliated, Tel Aviv, Israel
- Torsten Ueckerdt  (56)
Institute of Theoretical Informatics, Karlsruhe
Institute of Technology, Germany
- Seun William Umboh  (70)
School of Computing and Information Systems,
The University of Melbourne, Australia; ARC
Training Centre in Optimisation Technologies,
Integrated Methodologies, and Applications
(OPTIMA), Melbourne, Australia
- Przemysław Uznański  (29)
Institute of Computer Science, University of
Wrocław, Poland
- Ivor van der Hoog  (25)
Technical University of Denmark, Lyngby,
Denmark

Pascal Vanier  (21)
Normandie Univ, UNICAEN, ENSICAEN,
CNRS, GREYC, 14000, Caen, France

Gabriele Vanoni  (68)
IRIF, Université Paris Cité, France


Lionel Vaux Auclair  (23)
Aix-Marseille Université, CNRS, I2M, France

Oleg Verbitsky  (75)
Institut für Informatik, Humboldt-Universität zu
Berlin, Germany


Shaily Verma  (5)
Algorithm Engineering Group, Hasso Plattner
Institute, Potsdam, Germany

László A. Végh (2)
University of Bonn, Germany


Magnus Wahlström  (52, 62)
Department of Computer Science, Royal
Holloway University of London, UK

Haitao Wang  (73, 76)
Kahlert School of Computing, University of
Utah, Salt Lake City, UT, USA


Jiaheng Wang  (28)
University of Regensburg, Germany


Simon Weber  (71)
Department of Computer Science, ETH Zürich,
Switzerland


Armin Weiß  (58)
University of Stuttgart, Germany

Philip Wellnitz  (41)
National Institute of Informatics, Tokyo, Japan;
The Graduate University for Advanced Studies,
SOKENDAI, Tokyo, Japan

Sebastian Wiederrecht  (6)
School of Computing, KAIST, Daejeon, South
Korea


Paul Wild  (40)
Friedrich-Alexander-Universität
Erlangen-Nürnberg, Germany

Guochuan Zhang  (51)
Zhejiang University, Hangzhou, China

Yiming Zhao  (76)
Department of Computer Sciences, Metropolitan
State University of Denver, CO, USA

Xin Zheng  (65)
Nanjing University, China

Maksim Zhukovskii  (75)
School of Computer Science, University of
Sheffield, UK

Aleksander Łukasiewicz  (29)
Institute of Computer Science, University of
Wrocław, Poland; Computer Science Institute of
Charles University, Prague, Czech Republic

