



26th International Symposium on Theoretical Aspects of Computer Science (STACS)

Susanne Albers, Jean-Yves Marion

► To cite this version:

Susanne Albers, Jean-Yves Marion. 26th International Symposium on Theoretical Aspects of Computer Science (STACS). Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik, Germany, LIPIcs. STACS - 2009, Feb 2009, FREIBURG, Germany. 090001, pp.1-7, 2009, Dagstuhl Seminar Proceedings. hal-00434332

HAL Id: hal-00434332

<https://hal.inria.fr/hal-00434332>

Submitted on 22 Nov 2009

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

FOREWORD

SUSANNE ALBERS¹ AND JEAN-YVES MARION²

¹ Department of Computer Science, University of Freiburg
E-mail address: `salbers@informatik.uni-freiburg.de`

² Loria and ENS des Mines de Nancy
E-mail address: `jean-yves.marion@loria.fr`

The Symposium on Theoretical Aspects of Computer Science (STACS) is held alternately in France and in Germany. The conference of February 26-28, 2009, held in Freiburg, is the 26th in this 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), and Bordeaux (2008).

The interest in STACS has remained at a high level over the past years. The STACS 2009 call for papers led to over 280 submissions from 41 countries. Each paper was assigned to three program committee members. The program committee held a two-week electronic meeting at the beginning of November and selected 54 papers. As co-chairs of the program committee, we would like to sincerely thank its members and the many external referees for their valuable work. The overall very high quality of the submissions made the selection a difficult task.

We would like to express our thanks to the three invited speakers, Monika Henzinger, Jean-Éric Pin and Nicole Schweikardt, for their contributions to the proceedings.

Special thanks are due to A. Voronkov for his EasyChair software (www.easychair.org). Moreover we would like to thank Sonja Lauer for preparing the conference proceedings and continuous help throughout the conference organization.

For the second time this year's STACS proceedings are published in electronic form. A printed version was also available at the conference, with ISBN 978-3-939897-09-5. The electronic proceedings are available through several portals, and in particular through HAL and DROPS. HAL is an electronic repository managed by several French research agencies, and DROPS is the Dagstuhl Research Online Publication Server. We want to thank both these servers for hosting the proceedings of STACS and guaranteeing them perennial availability. The rights on the articles in the proceedings are kept with the authors and the papers are available freely, under a Creative Commons license (see www.stacs-conf.org/faq.html for more details).



STACS 2009 received funds from the German Research Foundation (Deutsche Forschungsgemeinschaft, DFG) and the University of Freiburg. We thank them for their support!

December 2008

Susanne Albers
Jean-Yves Marion

Conference organization

STACS 2009 was organized by the Chair of Algorithms and Complexity at the University of Freiburg under the auspices of the Special Interest Group for Theoretical Computer Science of the Gesellschaft für Informatik (GI).

Members of the Program Committee

Susanne Albers	<i>University of Freiburg</i>
Andris Ambainis	<i>University of Latvia</i>
Philippe Baptiste	<i>École Polytechnique & CNRS LIX</i>
Holger Bast	<i>MPI Saarbrücken</i>
Patricia Bouyer	<i>CNRS & ENS Cachan</i>
Martin Dietzfelbinger	<i>TU Ilmenau</i>
Zoltán Ésik	<i>University of Szeged & University of Tarragona</i>
Christiane Frougny	<i>University of Paris 8 & LIAFA CNRS</i>
Leonid Libkin	<i>University of Edinburgh</i>
Meena Mahajan	<i>Institute of Mathematical Sciences Chennai</i>
Jean-Yves Marion	<i>Nancy-Université & Loria</i>
K. Narayan Kumar	<i>Chennai Mathematical Insitute</i>
Friedrich Otto	<i>University of Kassel</i>
Joël Ouaknine	<i>University of Oxford</i>
Harald Räcke	<i>University of Warwick</i>
Eric Rémila	<i>CNRS & University of St-Etienne</i>
Adi Rosén	<i>CNRS & University of Paris 11</i>
Martin Skutella	<i>TU Berlin</i>
Jeremy Spinrad	<i>Vanderbilt University</i>
Kavitha Telikepalli	<i>IISc Bangalore</i>
Thomas Wilke	<i>University of Kiel</i>
Philipp Woelfel	<i>University of Calgary</i>

Members of the Organizing Committee

Susanne Albers
 Gero Greiner
 Tobias Jacobs
 Sonja Lauer
 Alexander Souza

External reviewers

Karen Aardal	Manuel Bodirsky	Giovanni Di Crescenzo
Dimitris Achlioptas	Hans Bodlaender	Maxime Crochemore
Anil Ada	Andrej Bogdanov	Mary Cryan
Anna Adamaszek	Bernard Boigelot	László Csirmaz
Isolde Adler	Beate Bollig	Péter Csorba
Manindra Agrawal	Guillaume Bonfante	Liliana Cucu
Oswin Aichholzer	Paul Bonsma	Artur Czumaj
Miklós Ajtai	Henning Bordihn	Víctor Dalmau
Deepak Ajwani	Olivier Bournez	Carsten Damm
Ali Akhavi	Octave Boussaton	Bireswar Das
Eric Allender	Andreas Brandstädt	Jürgen Dassow
Kazuyuki Amano	Thomas Brihaye	Samir Datta
Giuseppe Amato	Andrei Bulatov	Alain Daurat
Maxime Amblard	Jérôme Buzzi	Matei David
Amihoud Amir	Sergio Cabello	Anuj Dawar
Luis Antunes	Diletta Romana Cacciagrano	Brian Dean
Krzysztof Apt	Alberto Caprara	Daniel Delling
Marcelo Arenas	Ioannis Caragiannis	Marianne Delorme
Vikraman Arvind	Arnaud Carayol	François Denis
Arash Asadpour	Olivier Carton	Amit Deshpande
Albert Atserias	Catarina Carvalho	Alin Deutsch
Franz Aurenhammer	Gianpiero Cattaneo	Florian Diedrich
Chen Avin	Marjan Celikik	Volker Diekert
Yossi Azar	Amit Chakrabarti	Michael Dom
Nikhil Bansal	Deeparnab Chakrabarty	Frederic Dorn
Pablo Barceló	Sourav Chakraborty	Rodney G. Downey
Richard Baron	Tanmoy Chakraborty	Daniel Dressler
Cédric Bastoul	Jérémie Chalopin	Manfred Droste
Sylvain Béal	Erin Chambers	Deepak D'Souza
Luca Becchetti	Krishnendu Chatterjee	Donglei Du
Florent Becker	Jen-Yeu Chen	Marie Duflot
József Békési	Victor Chepoi	Jacques Duparc
Michael Benedikt	Christian Choffrut	Bruno Durand
Sergey Bereg	Marek Chrobak	Jérôme Durand-Lose
Petra Berenbrink	Ken Clarkson	Christoph Dürr
Martin Berger	Julien Clément	Zeev Dvir
Jean Berstel	Raphaël Clifford	Bettina Eick
Nathalie Bertrand	Bob Coecke	Khaled Elbassioni
Dietmar Berwanger	Johanne Cohen	Michael Elkin
Peter Biro	Amin Coja-Oghlan	Faith Ellen
Somenath Biswas	Sébastien Collette	Robert Elsässer
Henrik Björklund	Vincent Conitzer	Matthias Englert
Bruno Blanchet	Colin Cooper	Leah Epstein
Markus Bläser	Derek Corneil	Thomas Erlebach
Johannes Blömer	José Correa	Kousha Etesami
Achim Blumensath	Véronique Cortier	Martin Farach-Colton
Hans-Joachim Böckenhauer	Marie-Christine Costa	Hugues Fauconnier
Olivier Bodini	Bruno Courcelle	John Fearnley

Tomás Feder	William Hesse	Hartmut Klauck
Mike Fellows	Volker Heun	Rolf Klein
Daniel Fernholz	Lisa Higham	Shmuel Klein
Guillaume Fertin	Benjamin Hiller	Ines Klimann
Abraham Flaxman	Denis Hirschfeldt	Christian Knauer
Paola Flocchini	Mika Hirvensalo	Johannes Köbler
Fedor Fomin	John Hitchcock	Ekkehard Köhler
Pierre Fraigniaud	Petr Hliněný	Jochen Könemann
Kimmo Fredriksson	Thanh Minh Hoang	Nitish Korula
Tobias Friedrich	Michael Hoffmann	Dieter Kratsch
Alan Frieze	Markus Holzer	Stefan Kratsch
Bernhard Fuchs	Florian Horn	Robi Krauthgamer
Stefan Funke	Peter Hoyer	Steve Kremer
Anahí Gajardo	Mathieu Hoyrup	Danny Krizanc
Jérôme Galtier	Xiuzhen Huang	Sven Krumke
Yong Gao	Anna Huber	Piotr Krysta
Bernd Gärtner	Mark Huber	Gregory Kucherov
Floris Geerts	Falk Hüffner	Fabian Kuhn
Hugo Gimbert	Paul Hunter	Amit Kumar
Mathieu Giraud	Thore Husfeldt	Michal Kunz
Christian Glaßer	David Ilcinas	Orna Kupferman
Xavier Goaoc	Lucian Ilie	Klaas Ole Kürtz
Andreas Goerdt	Keiko Imai	Agi Kurucz
Leslie Ann Goldberg	Csanád Imreh	Piyush Kurur
Rob Goldblatt	François Irigoin	Dietrich Kuske
Michael Goodrich	Szabolcs Iván	Martin Kutrib
Navin Goyal	Satoru Iwata	Oded Lachish
Erich Grädel	Riko Jacob	Klaus-Jörn Lange
Jens Gramm	Rahul Jain	Martin Lange
Etienne Grandjean	Emmanuel Jeandel	Sophie Laplante
Fabrizio Grandoni	Peter Jeavons	Benoit Larose
Catherine Greenhill	Galina Jiraskova	François Laroussinie
Serge Grigorieff	Pushkar Joglekar	Ranko Lazic
Alexander Grigoriev	Daniel Johannsen	Emmanuelle Lebhar
Martin Grohe	Vincent Jost	Thierry Lecroq
André Gronemeier	Ruben Juarez	Troy Lee
Philippe de Groote	Stasys Jukna	Arnaud Lefebvre
Roberto Grossi	Marcin Jurdziński	Hanno Lefmann
Christoph Haase	Tomasz Jurdziński	Jérôme Leroux
Torben Hagerup	Kanela Kaligosi	Lucas Létecart
MohammadTaghi Hajiaghayi	Mihyun Kang	Jian Li
Yijie Han	Juhani Karhumäki	Zongpeng Li
Edda Happ	Jarkko Kari	Nutan Limaye
Ramesh Hariharan	Juha Kärkkäinen	Gerhard Lischke
Tero Harju	Andreas Karrenbauer	Kamal Lodaya
Tobias Harks	Matya Katz	Christof Löding
Frédéric Havet	Wayne Kelly	Markus Lohrey
Edith Hemaspaandra	Michael Kerber	Satyanarayana Lokam
Miki Hermann	Roni Khardon	Daniel Lokshtanov
Danny Hermelin	James King	Vadim Lozin
Ulrich Hertrampf	Daniel Kirsten	Marco Lübbecke

Michael Luttenberger	Rouven Naujoks	Peter Rossmannith
Laurent Lyaudet	Gonzalo Navarro	Günter Rote
Avner Magen	Ashwin Nayak	Thomas Rothvoss
Frédéric Magniez	Yakov Nekrich	Jean-Baptiste Rouquier
Mohammad Mahdian	Frank Neumann	Sambuddha Roy
Veli Mäkinen	Phong Nguyen	Peter Ryan
Andreas Maletti	Prajakta Nimbhorkar	Wojciech Rytter
Rémy Malgouyres	Hidenosuke Nishio	Amin Saberi
Sebastian Maneth	Damian Niwiński	Rei Safavi-Naini
Yishay Mansour	Dirk Nowotka	Mohammad Salavatipour
Alberto Marchetti-Spaccamela	Ryan O'Donnell	Arnaud Sangnier
Maurice Margenstern	Nicolas Ollinger	Rahul Santhanam
Nicolas Markey	Rafail Ostrovsky	Luigi Santocanale
Petar Markovic	Michio Oyamaguchi	Ramprasad Sapharishi
Dániel Marx	Leszek Pacholski	Gabor Sarkozy
Martín Matamala	Rasmus Pagh	Jayalal Sarma
Domagoj Matijević	Laxmi Parida	Srinivasa Rao Satti
Yuri Matiyasevich	Mihăi Patrascu	Ravi Vijaya Satya
Kaczmarek Matthieu	Boaz Patt-Shamir	Martin Sauerhoff
Dillon Mayhew	Romain Péchoux	Saket Saurabh
Richard Mayr	Andrzej Pelc	Gabriel Scaloşub
Frédéric Mazoit	Simon Perdrix	Francesco Scarcello
Jacques Mazoyer	Marc E. Pfetsch	Nicolas Schabanel
Andrew McGregor	Christophe Picouleau	Mathias Schacht
Pierre McKenzie	Brigitte Pientka	Guido Schäfer
Nicole Megow	Jean-Éric Pin	Dominik Scheder
Dieter van Melkebeek	Nir Piterman	Christian Scheideler
Wolfgang Merkle	Ely Porat	Sven Schewe
Stephan Mertens	Lars Prädell	Christian Schindelhauer
Hartmut Messerschmidt	Kirk Pruhs	Henning Schnoor
Julián Mestre	Daniel Prusa	Uwe Schöning
Antoine Meyer	Simon Puglisi	Anna Schulze
Dominique Michelucci	Evangelia Pyrga	Pascal Schweitzer
Peter Bro Miltersen	Jaikumar Radhakrishnan	Thomas Schwentick
Sounaka Mishra	Tomasz Radzik	Maria Grazia Scutellà
Michael W. Mislove	Mathieu Raffinot	Michael Segal
Michael Mitzenmacher	Daniel Raible	Pranab Sen
Michael Molloy	Liva Ralaivola	Géraud Sénizergues
Fabien de Montgolfier	C. R. Ramakrishnan	Olivier Serre
Hannes Moser	Venkatesh Raman	Rocco Servedio
Larry Moss	R. Ramanujam	Jeffrey Shallit
Elchanan Mossel	M. V. Panduranga Rao	Ronen Shaltiel
Jean-Yves Moyen	B. V. Raghavendra Rao	Vitaly Shmatikov
Indraneel Mukherjee	Damien Regnault	Amin Shokrollahi
Partha Mukhopadhyay	Daniel Reidenbach	Anastasios Sidiropoulos
Madhavan Mukund	Rüdiger Reischuk	Somnath Sikdar
Ian Munro	Christian Reitwießner	Pedro V. Silva
Filip Murlak	Giuseppina Rindone	Hans Simon
Viswanath Nagarajan	Romeo Rizzi	René Sitters
Giacomo Nannicini	Julien Robert	Isabelle Sivignon
Meghana Nasre	Andrei Romashchenko	Alex Slivkins

Robert Sloan
Shakhar Smorodinsky
William F. Smyth
Christian Sohler
Philippe Solal
Jonathan Sorenson
Alexander Souza
Srikanth Srinivasan
Heiko Stamer
Ian Stark
Rob van Stee
Damien Stehlé
Frank Stephan
David Steurer
Nicolás Stier-Moses
Howard Straubing
Karol Suchan
S. P. Suresh
Maxim Sviridenko
Andrzej Szepietowski
Thomas Thierauf
Eric Thierry
Dimitrios Thilikos
Wolfgang Thomas
Stéphan Thomassé
Mikkel Thorup

Sébastien Tixeuil
Anthony Widjaja To
Ioan Todinca
Jacobo Torán
Corinne Touati
Luca Trevisan
Mirosław Truszczyński
Denis Trystram
Madhur Tulsiani
Andrew Turpin
Andy Twigg
Chris Umans
Christian Urban
Sándor Vágvölgyi
Kasturi Varadarajan
Vinodchandran Variyam
Éric Colin de Verdière
Nikolay Vereshchagin
Jose Verschae
Laurent Vigneron
Dan Vilenchik
V. Vinay
Emanuele Viola
Sundar Vishwanathan
Paul Vitanyi
Berthold Vöcking

Heribert Vollmer
Jan Vondrak
Vladimir V'yugin
Magnus Wahlström
Yoshiko Wakabayashi
Igor Walukiewicz
Rolf Wanka
Bogdan Warinschi
John Watrous
Pascal Weil
Gera Weiss
Andreas Wiese
Gerhard Woeginger
Ronald de Wolf
Pierre Wolper
David Woodruff
James Worrell
Mihalis Yannakakis
Ke Yi
Sheng Yu
Luca Zamboni
Mariano Zelke
Wiesław Zielonka
Uri Zwick