

# 28th International Symposium on Algorithms and Computation

ISAAC 2017, December 9–12, 2017, Phuket, Thailand

Edited by

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*ACM Classification 1998*

E.1 Data Structures, F. Theory of Computation, G. Mathematics of Computing, I. Computing Methodologies

**ISBN 978-3-95977-054-5**

*Published online and open access by*

Schloss Dagstuhl – Leibniz-Zentrum für Informatik GmbH, Dagstuhl Publishing, Saarbrücken/Wadern, Germany. Online available at <http://www.dagstuhl.de/dagpub/978-3-95977-054-5>.

*Publication date*

December, 2017

*Bibliographic information published by the Deutsche Nationalbibliothek*

The Deutsche Nationalbibliothek lists this publication in the Deutsche Nationalbibliografie; detailed bibliographic data are available in the Internet at <http://dnb.d-nb.de>.

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Digital Object Identifier: 10.4230/LIPIcs.ISAAC.2017.0

ISBN 978-3-95977-054-5

ISSN 1868-8969

<http://www.dagstuhl.de/lipics>

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## ■ Contents

Preface	
<i>Yoshio Okamoto and Takeshi Tokuyama</i> .....	0:xi

### Invited Talks

Weighted Linear Matroid Parity	
<i>Satoru Iwata</i> .....	1:1–1:5
Computational Philosophy: On Fairness in Automated Decision Making	
<i>Suresh Venkatasubramanian</i> .....	2:1–2:1

### Contributed Talks

Faster Algorithms for Growing Prioritized Disks and Rectangles	
<i>Hee-Kap Ahn, Sang Won Bae, Jongmin Choi, Matias Korman, Wolfgang Mulzer, Eunjin Oh, Ji-won Park, André van Renssen, and Antoine Vigneron</i> .....	3:1–3:13
Placing your Coins on a Shelf	
<i>Helmut Alt, Kevin Buchin, Steven Chaplick, Otfried Cheong, Philipp Kindermann, Christian Knauer, and Fabian Stehn</i> .....	4:1–4:12
On the Number of $p_4$ -Tilings by an $n$ -Omino	
<i>Kazuyuki Amano and Yoshinobu Haruyama</i> .....	5:1–5:12
Network Optimization on Partitioned Pairs of Points	
<i>Esther M. Arkin, Aritra Banik, Paz Carmi, Gui Citovsky, Su Jia, Matthew J. Katz, Tyler Mayer, and Joseph S. B. Mitchell</i> .....	6:1–6:12
Voronoi Diagrams for Parallel Halflines and Line Segments in Space	
<i>Franz Aurenhammer, Bert Jüttler, and Günter Paulini</i> .....	7:1–7:10
Faster Algorithms for Half-Integral $T$ -Path Packing	
<i>Maxim Babenko and Stepan Artamonov</i> .....	8:1–8:12
Shortcuts for the Circle	
<i>Sang Won Bae, Mark de Berg, Otfried Cheong, Joachim Gudmundsson, and Christos Levcopoulos</i> .....	9:1–9:13
Routing in Polygonal Domains	
<i>Bahareh Banyassady, Man-Kwun Chiu, Matias Korman, Wolfgang Mulzer, André van Renssen, Marcel Roeloffzen, Paul Seiferth, Yannik Stein, Birgit Vogtenhuber, and Max Willert</i> .....	10:1–10:13
Tilt Assembly: Algorithms for Micro-Factories that Build Objects with Uniform External Forces	
<i>Aaron T. Becker, Sándor P. Fekete, Phillip Keldenich, Dominik Krupke, Christian Rieck, Christian Scheffer, and Arne Schmidt</i> .....	11:1–11:13
A Simple Greedy Algorithm for Dynamic Graph Orientation	
<i>Edvin Berglin and Gerth Støtting Brodal</i> .....	12:1–12:12

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Leibniz International Proceedings in Informatics

Schloss Dagstuhl – Leibniz-Zentrum für Informatik, Dagstuhl Publishing, Germany

Crossing Number for Graphs with Bounded Pathwidth <i>Therese Biedl, Markus Chimani, Martin Derka, and Petra Mutzel</i> .....	13:1–13:13
An Improved Algorithm for Computing All the Best Swap Edges of a Tree Spanner <i>Davide Bilò, Feliciano Colella, Luciano Gualà, Stefano Leucci, and Guido Proietti</i>	14:1–14:13
Decomposing a Graph into Shortest Paths with Bounded Eccentricity <i>Etienne Birmelé, Fabien de Montgolfier, Léo Planche, and Laurent Viennot</i> .....	15:1–15:13
Independent Feedback Vertex Set for $P_5$ -free Graphs <i>Marthe Bonamy, Konrad K. Dabrowski, Carl Feghali, Matthew Johnson, and Daniël Paulusma</i> .....	16:1–16:12
On the Convergence Time of a Natural Dynamics for Linear Programming <i>Vincenzo Bonifaci</i> .....	17:1–17:12
Routing on the Visibility Graph <i>Prosenjit Bose, Matias Korman, André van Renssen, and Sander Verdonschot</i> ...	18:1–18:12
An FPTAS of Minimizing Total Weighted Completion Time on Single Machine with Position Constraint <i>Gruia Călinescu, Florian Jaehn, Minming Li, and Kai Wang</i> .....	19:1–19:13
An Efficient Fixed-Parameter Algorithm for the 2-Plex Bipartition Problem <i>Li-Hsuan Chen, Sun-Yuan Hsieh, Ling-Ju Hung, and Peter Rossmanith</i> .....	20:1–20:13
Smart Contract Execution – the $(+-)$ -Biased Ballot Problem <i>Lin Chen, Lei Xu, Zhimin Gao, Nolan Shah, Yang Lu, and Weidong Shi</i> .....	21:1–21:12
Study of a Combinatorial Game in Graphs Through Linear Programming <i>Nathann Cohen, Fionn Mc Inerney, Nicolas Nisse, and Stéphane Pérennes</i> .....	22:1–22:13
On Maximal Cliques with Connectivity Constraints in Directed Graphs <i>Alessio Conte, Mamadou Moustapha Kanté, Takeaki Uno, and Kunihiro Wasa</i> ...	23:1–23:13
Square-Contact Representations of Partial 2-Trees and Triconnected Simply-Nested Graphs <i>Giordano Da Lozzo, William E. Devanny, David Eppstein, and Timothy Johnson</i>	24:1–24:14
Faster DBScan and HDBScan in Low-Dimensional Euclidean Spaces <i>Mark de Berg, Ade Gunawan, and Marcel Roeloffzen</i> .....	25:1–25:13
Fully-Dynamic and Kinetic Conflict-Free Coloring of Intervals with Respect to Points <i>Mark de Berg, Tim Leijssen, Aleksandar Markovic, André van Renssen, Marcel Roeloffzen, and Gerhard Woeginger</i> .....	26:1–26:13
Dynamic Conflict-Free Colorings in the Plane <i>Mark de Berg and Aleksandar Markovic</i> .....	27:1–27:13
Temporal Hierarchical Clustering <i>Tamal K. Dey, Alfred Rossi, and Anastasios Sidiropoulos</i> .....	28:1–28:12
Agnostically Learning Boolean Functions with Finite Polynomial Representation <i>Ning Ding</i> .....	29:1–29:11

Succinct Color Searching in One Dimension <i>Hicham El-Zein, J. Ian Munro, and Yakov Nekrich</i> .....	30:1–30:11
Conflict-Free Coloring of Intersection Graphs <i>Sándor P. Fekete and Phillip Keldenich</i> .....	31:1–31:12
On Using Toeplitz and Circulant Matrices for Johnson-Lindenstrauss Transforms <i>Casper Benjamin Freksen and Kasper Green Larsen</i> .....	32:1–32:12
Almost Linear Time Computation of Maximal Repetitions in Run Length Encoded Strings <i>Yuta Fujishige, Yuto Nakashima, Shunsuke Inenaga, Hideo Bannai, and Masayuki Takeda</i> .....	33:1–33:12
Embedding Graphs into Embedded Graphs <i>Radoslav Fulek</i> .....	34:1–34:12
Structural Pattern Matching – Succinctly <i>Arnab Ganguly, Rahul Shah, and Sharma V. Thankachan</i> .....	35:1–35:13
On Structural Parameterizations of the Edge Disjoint Paths Problem <i>Robert Ganian, Sebastian Ordyniak, and Ramanujan Sridharan</i> .....	36:1–36:13
Barrier Coverage with Non-uniform Lengths to Minimize Aggregate Movements <i>Serge Gaspers, Joachim Gudmundsson, Julián Mestre, and Stefan Rümmele</i> .....	37:1–37:13
Sorting with Recurrent Comparison Errors <i>Barbara Geissmann, Stefano Leucci, Chih-Hung Liu, and Paolo Penna</i> .....	38:1–38:12
Dominance Product and High-Dimensional Closest Pair under $L_\infty$ <i>Omer Gold and Micha Sharir</i> .....	39:1–39:12
Orthogonal Vectors Indexing <i>Isaac Goldstein, Moshe Lewenstein, and Ely Porat</i> .....	40:1–40:12
Non-approximability and Polylogarithmic Approximations of the Single-Sink Unsplittable and Confluent Dynamic Flow Problems <i>Mordecai J. Golin, Hadi Khodabande, and Bo Qin</i> .....	41:1–41:13
Range-Efficient Consistent Sampling and Locality-Sensitive Hashing for Polygons <i>Joachim Gudmundsson and Rasmus Pagh</i> .....	42:1–42:13
Maximum Induced Matching Algorithms via Vertex Ordering Characterizations <i>Michel Habib and Lalla Mouatadid</i> .....	43:1–43:12
On-the-Fly Array Initialization in Less Space <i>Torben Hagerup and Frank Kammer</i> .....	44:1–44:12
On Directed Covering and Domination Problems <i>Tesshu Hanaka, Naomi Nishimura, and Hirotaka Ono</i> .....	45:1–45:12
Settlement Fund Circulation Problem <i>Hitoshi Hayakawa, Toshimasa Ishii, Hirotaka Ono, and Yushi Uno</i> .....	46:1–46:13
An Efficient Sum Query Algorithm for Distance-based Locally Dominating Functions <i>Ziyun Huang and Jinhui Xu</i> .....	47:1–47:13

Complexity of the Multi-Service Center Problem <i>Takehiro Ito, Naonori Kakimura, and Yusuke Kobayashi</i> .....	48:1–48:12
Improved Algorithms for Scheduling Unsplittable Flows on Paths <i>Hamidreza Jahanjou, Erez Kantor, and Rajmohan Rajaraman</i> .....	49:1–49:12
Structural Parameters, Tight Bounds, and Approximation for $(k, r)$ -Center <i>Ioannis Katsikarelis, Michael Lampis, and Vangelis Th. Paschos</i> .....	50:1–50:13
Optimal Matroid Partitioning Problems <i>Yasushi Kawase, Kei Kimura, Kazuhisa Makino, and Hanna Sumita</i> .....	51:1–51:13
Improved Bounds for Online Dominating Sets of Trees <i>Koji M. Kobayashi</i> .....	52:1–52:12
Maximizing the Strong Triadic Closure in Split Graphs and Proper Interval Graphs <i>Athanasios L. Konstantinidis and Charis Papadopoulos</i> .....	53:1–53:12
Non-Crossing Geometric Steiner Arborescences <i>Irina Kostitsyna, Bettina Speckmann, and Kevin Verbeek</i> .....	54:1–54:13
Precedence-Constrained Min Sum Set Cover <i>Jessica McClintock, Julián Mestre, and Anthony Wirth</i> .....	55:1–55:12
Jointly Stable Matchings <i>Shuichi Miyazaki and Kazuya Okamoto</i> .....	56:1–56:12
Fast Compressed Self-Indexes with Deterministic Linear-Time Construction <i>J. Ian Munro, Gonzalo Navarro, and Yakov Nekrich</i> .....	57:1–57:12
Satisfiability Algorithm for Syntactic Read- $k$ -times Branching Programs <i>Atsuki Nagao, Kazuhisa Seto, and Junichi Teruyama</i> .....	58:1–58:10
Fully Dynamic Connectivity Oracles under General Vertex Updates <i>Kengo Nakamura</i> .....	59:1–59:12
Finding Pairwise Intersections of Rectangles in a Query Rectangle <i>Eunjin Oh and Hee-Kap Ahn</i> .....	60:1–60:12
A New Balanced Subdivision of a Simple Polygon for Time-Space Trade-off Algorithms <i>Eunjin Oh and Hee-Kap Ahn</i> .....	61:1–61:12
Complexity of Coloring Reconfiguration under Recolorability Constraints <i>Hiroki Osawa, Akira Suzuki, Takehiro Ito, and Xiao Zhou</i> .....	62:1–62:13
Approximate Nearest Neighbors Search Without False Negatives For $l_2$ For $c > \sqrt{\log \log n}$ <i>Piotr Sankowski and Piotr Wygocki</i> .....	63:1–63:12
Tight Approximation for Partial Vertex Cover with Hard Capacities <i>Jia-Yau Shiau, Mong-Jen Kao, Ching-Chi Lin, and D.T. Lee</i> .....	64:1–64:13
Hybrid VCSPs with Crisp and Valued Conservative Templates <i>Rustem Takhonov</i> .....	65:1–65:13
A $(1.4 + \epsilon)$ -Approximation Algorithm for the 2-Max-Duo Problem <i>Yao Xu, Yong Chen, Guohui Lin, Tian Liu, Taibo Luo, and Peng Zhang</i> .....	66:1–66:12



Envy-free Matchings with Lower Quotas  
*Yu Yokoi* ..... 67:1–67:12



## ■ Preface

This volume contains the proceedings of the 28th International Symposium on Algorithms and Computation (ISAAC 2017), held in Phuket, Thailand, December 9–12, 2017. ISAAC is an annual international symposium that covers the very wide range of topics in the field of algorithms and computation. The main purpose of the symposium is to provide a forum for researchers working in algorithms and theory of computation from all over the world. In response to our call for papers, we received 160 submissions from 36 countries, among which three submissions were withdrawn. Each submission was reviewed by at least three Program Committee members, possibly with the assistance of external reviewers. After a rigorous review process and extensive discussion, the Program Committee selected 65 papers. Two special issues of *Algorithmica* and *International Journal of Computational Geometry and Applications* will publish selected papers from ISAAC 2017. The best paper award was given to “Crossing Number for Graphs with Bounded Pathwidth” by Therese Biedl, Markus Chimani, Martin Derka and Petra Mutzel. Selected from submissions authored by students only, the best student paper award was given to “Fully Dynamic Connectivity Oracles under General Vertex Updates” by Kengo Nakamura. In addition to selected papers, the program also included plenary talks by two prominent invited speakers, Satoru Iwata, University of Tokyo, Japan, and Suresh Venkatasubramanian, University of Utah, USA. We thank all the Program Committee members and external reviewers for their professional service and volunteering their time to review the submissions under time constraints. We also thank all authors who submitted papers for consideration, thereby contributing to the high quality of the conference. We would like also to acknowledge our supporting organizations for their assistance and support, in particular Artificial Intelligence Association of Thailand, Sirindhorn International Institute of Technology, and Thammasat University. Finally, we are deeply indebted to the Organizing Committee members, Thanaruk Theeramunkung, Jittat Fakcharoenphol, Natsuda Kaothanthong, Chutima Beokhaimook, and Pokpong Songmuang, whose excellent effort and professional service to the community made the conference an unparalleled success.

December, 2017

Yoshio Okamoto and Takeshi Tokuyama





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