

Table of Contents

Fun with Olympiad in Algorithmics (Invited Talk)	1
<i>Roberto Grossi, Alessio Orlandi, and Giuseppe Ottaviano</i>	
The FUNnest Talks That belong to FUN (Abstract)	3
<i>Prabhakar Raghavan</i>	
Fun with Games (Invited Talk)	4
<i>Paul G. Spirakis, Ioannis Chatzigiannakis, Georgios Mylonas, and Panagiota N. Panagopoulou</i>	
Do We Need a Stack to Erase a Component in a Binary Image?	16
<i>Tetsuo Asano</i>	
Kaboodle Is NP-complete, Even in a Strip	28
<i>Tetsuo Asano, Erik D. Demaine, Martin L. Demaine, and Ryuhei Uehara</i>	
A Hat Trick	37
<i>Oren Ben-Zwi and Guy Wolfvitz</i>	
Fun at a Department Store: Data Mining Meets Switching Theory	41
<i>Anna Bernasconi, Valentina Ciriani, Fabrizio Luccio, and Linda Pagli</i>	
Using Cell Phone Keyboards is ($\mathcal{NP}$) Hard	53
<i>Peter Boothe</i>	
Urban Hitchhiking	68
<i>Marco Bressan and Enoch Peserico</i>	
A Fun Application of Compact Data Structures to Indexing Geographic Data	77
<i>Nieves R. Brisaboa, Miguel R. Luaces, Gonzalo Navarro, and Diego Seco</i>	
On Table Arrangements, Scrabble Freaks, and Jumbled Pattern Matching	89
<i>Péter Burcsi, Ferdinando Cicalese, Gabriele Fici, and Zsuzsanna Lipták</i>	
Cryptographic and Physical Zero-Knowledge Proof: From Sudoku to Nonogram	102
<i>Yu-Feng Chien and Wing-Kai Hon</i>	

A Better Bouncer's Algorithm	113
<i>Ferdinando Cicalese, Travis Gagie, Anthony J. Macula, Martin Milanič, and Eberhard Triesch</i>	
Tradeoffs in Process Strategy Games with Application in the WDM Reconfiguration Problem	121
<i>Nathann Cohen, David Coudert, Dorian Mazauric, Napoleão Nepomuceno, and Nicolas Nisse</i>	
UNO Is Hard, Even for a Single Player	133
<i>Erik D. Demaine, Martin L. Demaine, Ryuhei Uehara, Takeaki Uno, and Yushi Uno</i>	
Leveling-Up in Heroes of Might and Magic III	145
<i>Dimitrios I. Diochnos</i>	
The Magic of a Number System	156
<i>Amr Elmasry, Claus Jensen, and Jyrki Katajainen</i>	
Bit-(Parallelism) ² : Getting to the Next Level of Parallelism	166
<i>Domenico Cantone, Simone Faro, and Emanuele Giaquinta</i>	
An Algorithmic Analysis of the Honey-Bee Game	178
<i>Rudolf Fleischer and Gerhard J. Woeginger</i>	
Mapping an Unfriendly Subway System	190
<i>Paola Flocchini, Matthew Kellett, Peter C. Mason, and Nicola Santoro</i>	
Cracking Bank PINs by Playing Mastermind	202
<i>Riccardo Focardi and Flaminia L. Luccio</i>	
Computational Complexity of Two-Dimensional Platform Games	214
<i>Michal Forišek</i>	
Christmas Gift Exchange Games	228
<i>Arpita Ghosh and Mohammad Mahdian</i>	
Return of the Boss Problem: Competing Online against a Non-adaptive Adversary	237
<i>Magnús M. Halldórsson and Hadas Shachnai</i>	
Managing Change in the Era of the iPhone	249
<i>Patrick Healy</i>	
The Computational Complexity of RACETRACK	260
<i>Markus Holzer and Pierre McKenzie</i>	
Simple Wriggling Is Hard Unless You Are a Fat Hippo	272
<i>Irina Kostitsyna and Valentin Polishchuk</i>	

The Urinal Problem	284
<i>Evangelos Kranakis and Danny Krizanc</i>	
Fighting Censorship with Algorithms	296
<i>Mohammad Mahdian</i>	
The Complexity of Flood Filling Games	307
<i>David Arthur, Raphaël Clifford, Markus Jalsenius, Ashley Montanaro, and Benjamin Sach</i>	
The Computational Complexity of the KAKURO Puzzle, Revisited	319
<i>Oliver Ruepp and Markus Holzer</i>	
Symmetric Monotone Venn Diagrams with Seven Curves	331
<i>Tao Cao, Khalegh Mamakani, and Frank Ruskey</i>	
The Feline Josephus Problem	343
<i>Frank Ruskey and Aaron Williams</i>	
Scheduling with Bully Selfish Jobs	355
<i>Tamir Tamir</i>	
O(1)-Time Unsorting by Prefix-Reversals in a Boustrophedon Linked List	368
<i>Aaron Williams</i>	
Author Index	381