

21st International Conference

Implementation and Application of Automata (CIAA)

July 19-22, 2016, Seoul (South Korea)



Program

July 19, 2016	
08:45-09:00	Registration
09:00-10:00	Invited talk: Bakhadyr Khossainov (chair Kai Salomaa) <i>Automata over Algebraic Structures</i>
10:00-10:30	Coffee break
Section A (chair Friedrich Otto)	
10:30-11:00	Christos Kapoutsis and Lamana Mulaffner <i>A Logical Characterization of Small 2NFAs</i>
11:00-11:30	Henning Fernau and Andreas Krebs <i>Problems on Finite Automata and the Exponential Time Hypothesis</i>
11:30-12:00	Suna Bensch, Johanna Björklund and Martin Kutrib <i>Deterministic Stack Transducers</i>
12:00-13:30	Lunch break
Section B (chair Stavros Konstantinidis)	
13:30-14:00	Holger Bock Axelsen, Markus Holzer and Martin Kutrib <i>The Degree of Irreversibility in Deterministic Finite Automata</i>
14:00-14:30	Timothy Ng <i>Prefix Distance Between Regular Languages</i>
14:30-15:00	Jorge Calvo-Zaragoza, Colin De La Higuera and Jose Oncina <i>Computing the Expected Edit Distance from a String to a PFA</i>
15:00-15:30	Coffee break
Section C (chair Martin Kutrib)	
15:30-16:00	Jozef Jirasek and Juraj Sebej <i>Kuratowski Algebras Generated by Prefix-Free Languages</i>
16:00-16:30	Markus Teichmann <i>Regular Approximation of Weighted Linear Nondeleting Context-Free Tree Languages</i>
16:30-17:00	Akio Fujiyoshi <i>A Practical Algorithm for the Uniform Membership Problem of Labeled Multidigraphs of Tree-Width 2 for Spanning Tree Automata</i>
17:30-	Conference reception

	Lotus Hall (Sangnam Institute of Management 1F)
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July 20, 2016	
08:45-09:00	Registration
09:00-10:00	Invited talk: Oscar H. Ibarra (chair Markus Holzer) <i>Grammatical Characterizations of NPDAs and VPDAs with Counters</i>
10:00-10:30	Coffee break
<i>Section D</i> (chair Bruce Watson)	
10:30-11:00	Shinnosuke Seki and Andrew Winslow <i>The complexity of fixed-height patterned tile self-assembly</i>
11:00-11:30	Martin Sulzmann and Kenny Zhuo Ming Lu <i>Derivative-Based Diagnosis of Regular Expression Ambiguity</i>
11:30-12:00	J. Andres Montoya, Alexander Belovs and Abuzer Yakaryilmaz <i>Looking for the pairs that are hard to separate: A quantum approach</i>
12:00-13:30	Lunch break
<i>Section E</i> (chair Andreas Maletti)	
13:30-14:00	Daniel Prusa <i>Complexity of Sets of Two-dimensional Patterns</i>
14:00-14:30	Stavros Konstantinidis, Casey Meijer, Nelma Moreira and Rogerio Reis <i>Implementation of Code Properties via Transducers</i>
14:30-15:00	Michal Hospodar, Galina Jiraskova and Peter Mlynářík <i>Nondeterministic Complexity of Operations on Closed and Ideal Languages</i>
15:00-15:30	Coffee break
<i>Section F</i> (chair Johanna Björklund)	
15:30-16:00	Jakub Waszczuk, Agata Savary and Yannick Parmentier <i>Enhancing practical TAG parsing efficiency by capturing redundancy</i>
16:00-16:30	Qichao Wang and Friedrich Otto <i>Weighted Restarting Automata as Language Acceptors</i>
16:30-17:00	Emil Lerner <i>On Synchronizing Automata and Uniform Distribution</i>

July 21, 2016	
08:45-09:00	Registration
09:00-10:00	Invited talk: Ahyoung Sung (chair Yo-Sub Han) <i>What We Experience is What You Do</i>
10:00-10:30	Coffee break

<i>Section G</i> (chair Galina Jiraskova)	
10:30-11:00	Oscar H. Ibarra and Ian McQuillan <i>On Bounded Semilinear Languages, Counter Machines, and Finite-Index ETOL</i>
11:00-11:30	Zoltan Esik <i>Ternary Equational Languages</i>
11:30-12:00	CIAA general meeting
12:00-13:30	Lunch break
13:30-18:00	Excursion to Changdeokgung
19:00-	Conference dinner

July 22, 2016	
08:45-09:00	Registration
<i>Section H</i> (chair Shinnosuke Seki)	
09:00-9:30	Akim Demaille <i>Multitape Rational Expressions</i>
9:30-10:00	Nicolaas Weideman, Brink Van Der Merwe, Martin Berglund and Bruce Watson <i>Analyzing matching time behavior of backtracking regular expression matchers by using ambiguity of NFA</i>
10:00-10:30	Peter Thiemann <i>Derivatives for Enhanced Regular Expressions</i>
10:30-11:00	Coffee break
<i>Section I</i> (chair Brink van der Merwe)	
11:00-11:30	Robert Glück <i>A Practical Simulation Result for Two-Way Pushdown Automata</i>
11:30-12:00	Antonio Di Stasio, Aniello Murano, Giuseppe Perelli and Moshe Vardi <i>Solving Parity Games Using An Automata-Based Algorithm</i>
12:00-12:30	Andrzej Kisielewicz, Jakub Kowalski and Marek Szykuła <i>Experiments with Synchronizing Automata</i>
12:30-13:30	Lunch break

- All talks will be given at Cypress Room (2F, SIM)
- All lunches will be served at Lotus Hall (1F, SIM)