CIAA 2019

24th INTERNATIONAL CONFERENCE ON IMPLEMENTATION AND APPLICATION OF AUTOMATA

JULY 22-25, 2019, KOŠICE, SLOVAKIA Program of the conference

Monday, July 22, 2019		
8:30 - 9:25	Registration	
9:25 - 9:30	Opening	
	Session chair: Viliam Geffert	
9:30 - 10:30	Christos A. Kapoutsis (invited talk)	
	Alternation in two-way finite automata	
10:30 - 11:00	Coffee break	
	Session chair: Andreas Malcher	
11:00 – 11:30	FRANTIŠEK MRÁZ, DANIEL PRŮŠA, AND MICHAEL WEHAR Two-dimensional pattern matching against basic picture languages	
11:30 - 12:00	TAYLOR J. SMITH AND KAI SALOMAA Decision problems for restricted variants of two-dimensional automata	
12:00 – 14:00	Lunch in Hotel TeleDom	
	Session chair: Christos A. Kapoutsis	
14:00 – 15:00	ALEXANDER OKHOTIN (INVITED TALK) Graph-walking automata: From whence they come and whither they are bound	
15:00 – 15:30	Coffee break	
	Session chair: György Vaszil	
15:30 – 16:00	Yo-Sub Han, Hwee Kim, Yusei Masuda, and Shinnosuke Seki	
	A general architecture of oritatami systems for simulating arbitrary finite automata	
16:00 – 16:30	MARTIN KUTRIB, ANDREAS MALCHER, AND MATTHIAS WEND-LANDT	
	Input-driven multi-counter automata	
16:30 - 17:00	Simon Beier and Markus Holzer	
	Semi-linear lattices and right one-way jumping finite automata	
18:00 - 20:00	Welcome reception in Historical Town Hall	

Tuesday, Ju	ıly 23, 2019
	Session chair: Martin Kutrib
9:30 – 10:30	HELMUT SEIDL (INVITED TALK) Deciding equivalence of tree transducers by means of precise abstract interpretation
10:30 - 11:00	Coffee break
	Session chair: Shinnosuke Seki
11:00 – 11:30	ZOLTÁN FÜLÖP AND ANDREAS MALETTI Composition closure of linear weighted extended top-down tree transducers
11:30 - 12:00	Yuta Takahashi, Kazuyuki Asada, and Keisuke Nakano
	Streaming ranked-tree-to-string transducers
12:00 - 14:00	Lunch
	Session chair: Andreas Maletti
14:00 – 14:30	AKIO FUJIYOSHI AND DANIEL PRŮŠA A simple extension to finite tree automata for defining sets of labeled, connected graphs
14:30 – 15:00	JOHANNA BJÖRKLUND, FRANK DREWES, AND GIORGIO SATTA Z-automata for compact and direct representation of unranked tree languages
15:00 - 15:30	Coffee break
	Session chair: Markus Holzer
15:30 – 16:00	STAVROS KONSTANTINIDIS, NELMA MOREIRA, JOÃO PIRES, AND ROGÉRIO REIS Partial derivatives of regular expressions over alphabet-invariant and user-defined labels
16:00 - 16:30	Robert Bakarić, Damir Korenčić, and Strahil Ristov
	Enumerated automata implementation of string dictionaries
17:00 – 18:30	Guided tour in the city center

Wednesday	, July 24, 2019
	Session chair: Juraj Šebej
9:30 - 10:30	Marián Dvorský (invited talk)
	Large scale sorting in distributed data processing systems
10:30 - 11:00	Coffee break
	Tool session
	Session chair: Rogério Reis
11:00 – 11:30	Angelo Borsotti, Luca Breveglieri, Stefano Crespi Reghizzi, and Angelo Morzentii
	A benchmark production tool for regular expressions
12:00 - 14:00	Lunch break
14:00 - 22:00	Conference trip to the Tokaj region including
	 visit to the Observation tower in vineyards
	 degustation of wines and conference dinner at Macik Winery





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Thursday, July 25, 2019		
	Session chair: Hsu-Chun Yen	
9:30 - 10:30	Sebastian Maneth (invited talk)	
	Static garbage collection	
10:30 - 11:00	Coffee break	
	Session chair: Stavros Konstantinidis	
11:00 - 11:30	GILAD BARUCH, SHMUEL TOMI KLEIN, AND DANA SHAPIRA	
	New approaches for context sensitive flash codes	
11:30 – 12:00	Shuhei Denzumi New algorithms for manipulating sequence binary decision diagrams	
12:00 - 12:30	Business meeting	
	including the presentation of CIAA 2020 in Loughborough, UK	
12:30 - 14:00	Lunch break	
	Session chair: Galina Jirásková	
14:00 - 14:30	A Baskar, R Ramanujam, and S P Suresh	
	Dolev-Yao theory with associative blindpair operators	
14:30 – 15:00	MICHAL HOSPODÁR Descriptional complexity of power and positive closure on convex languages	
15:00 – 15:30	STAVROS KONSTANTINIDIS, MITJA MASTNAK, JURAJ ŠEBEJ Partitioning a symmetric rational relation into two asymmetric rational relations	
15:30	Closing of CIAA 2019	