

Scientific Programme of WATA 2008

Tuesday, May 13, 2008

08:30–09:00		REGISTRATION
09:00–10:30	K. Knight	TUTORIAL
	<i>An overview of weighted automata in natural language processing (I)</i>	
10:30–11:00		BREAK
11:00–12:00	W. Kuich	SURVEY LECTURE
	<i>Why we need semirings in automata theory</i>	
12:00–13:30		LUNCH
13:30–14:30	F. Drewes	SURVEY LECTURE
	<i>Learning: from string languages to tree series</i>	
14:35–15:00	F. Denis, A. Habrard, R. Gilleron, M. Tommasi, É. Gilbert	TECHNICAL CONTRIBUTION
	<i>On probability distributions for trees: representations, inference and learning</i>	
15:00–15:30		BREAK
15:30–15:55	A. Eckl	TECHNICAL CONTRIBUTION
	<i>Prediction of subalphabets and ranking in DAWG's for natural languages</i>	
15:55–16:20	T. Hanneforth, K.-M. Würzner	TECHNICAL CONTRIBUTION
	<i>Statistical language models within the algebra of weighted rational languages</i>	
16:20–16:45		BREAK
16:45–17:10	K. Quaas, M. Droste	TECHNICAL CONTRIBUTION
	<i>A Kleene-Schützenberger theorem for weighted timed automata</i>	
17:10–17:35	D. Kirsten, S. Lombardy	TECHNICAL CONTRIBUTION
	<i>Deciding unambiguity and sequentiality from a polynomially ambiguous min-plus automaton</i>	

Wednesday, May 14, 2008

08:30–09:00		REGISTRATION
09:00–10:30	K. Knight	TUTORIAL
	<i>An overview of weighted automata in natural language processing (II)</i>	
10:30–11:00		BREAK
11:00–12:00	W. Martens	SURVEY LECTURE
	<i>XML research for formal language theorists</i>	
12:00–13:30		LUNCH
13:30–14:30	A. Maletti	SURVEY LECTURE
	<i>Minimization of weighted automata</i>	
14:35–15:00	E. Mandrali, G. Rahonis	TECHNICAL CONTRIBUTION
	<i>Weighted tree automata with discounting</i>	
15:00–15:30		BREAK
15:30–15:55	Z. Fülöp, M. Steinby	TECHNICAL CONTRIBUTION
	<i>Varieties of recognizable tree series over fields</i>	
15:55–16:20	Z. Fülöp, L. Muzamel	TECHNICAL CONTRIBUTION
	<i>Weighted tree-walking automata</i>	
16:20–16:45		BREAK
16:45–17:10	C. Mathissen	TECHNICAL CONTRIBUTION
	<i>Weighted logics for nested words and algebraic formal power series</i>	
17:10–17:35	T. Stüber, H. Vogler, Z. Fülöp	TECHNICAL CONTRIBUTION
	<i>Decomposition of weighted multioperator tree automata</i>	

Thursday, May 15, 2008

08:30–09:00		REGISTRATION
09:00–10:30	Z. Ésik <i>Iteration theories as an axiomatic foundation of automata and language theory (I)</i>	TUTORIAL
10:30–11:00		BREAK
11:00–12:00	B. Gerla <i>Many-valued logic and fuzzy automata</i>	SURVEY LECTURE
12:00–13:30		LUNCH
13:30–14:30	G. Rahonis <i>Multi-valued automata: theory and applications</i>	SURVEY LECTURE
14:35–15:00	I. Meinecke <i>On the expressive power of a weighted μ-calculus</i>	TECHNICAL CONTRIBUTION
15:00–15:30		BREAK
15:30–15:55	M. Ćirić, A. Stamenković, J. Ignjatović, T. Petković <i>State reduction of fuzzy automata</i>	TECHNICAL CONTRIBUTION
15:55–16:20	J. Ignjatović, M. Ćirić, T. Petković <i>Relationships between FFA-recognizability and DFA-recognizability of fuzzy languages</i>	TECHNICAL CONTRIBUTION
16:20–16:45		BREAK
16:45–18:00		WORKSHOP
19:00–open		CONFERENCE DINNER

Friday, May 16, 2008

08:30–09:00		REGISTRATION
09:00–10:30	Z. Ésik	TUTORIAL
	<i>Iteration theories as an axiomatic foundation of automata and language theory (II)</i>	
10:30–11:00		BREAK
11:00–12:00	S. Gaubert	SURVEY LECTURE
	<i>To be announced</i>	
12:00–13:30		LUNCH
13:30–13:55	V. Halava, T. Harju, E. Lehtonen	TECHNICAL CONTRIBUTION
	<i>A survey of integer weighted finite automata</i>	
13:55–14:20	D. Kuske	TECHNICAL CONTRIBUTION
	<i>From unweighted to weighted traces — alternative proofs</i>	
14:20–14:45	S. Schwarz, R. Winter	TECHNICAL CONTRIBUTION
	<i>Recognizability of iterative picture languages</i>	
14:45–15:15		BREAK
15:15–15:40	A. Koprowski, J. Waldmann	TECHNICAL CONTRIBUTION
	<i>Max/Plus tree automata for termination of term rewriting</i>	
15:40–16:05	A. Gebhardt, J. Waldmann	TECHNICAL CONTRIBUTION
	<i>Weighted automata define a hierarchy of terminating string rewriting systems</i>	
16:05–16:15		BREAK
16:15–open		JOINT RESEARCH