

# DLT 2009 Conference Programme

## Monday, June 29, 2009

17:30 *Registration (Hotel Telekom, 17:30-20:00)*

19:00 *Welcome reception (Hotel Telekom, 19:00-21:00)*

## Tuesday, June 30, 2009

08:30	Invited talk <b>Paul Gastin: Weighted versus Probabilistic Logics</b> Hotel Telekom, Chair: Volker Diekert
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09:30 *Coffee break*

	— Session 1 — Hotel Telekom, Chair: Jacques Sakarovitch
10:00	Marie-Pierre Béal and Dominique Perrin: <b>A quadratic upper bound on the size of a synchronizing word in one-cluster automata</b>
10:30	Alberto Bertoni, Christian Choffrut and Roberto Radicioni: <b>The Inclusion Problem of Context-free Languages: Some Tractable Cases</b>
11:00	Janusz Brzozowski, Elyot Grant and Jeffrey Shallit: <b>Closures in Formal Languages and Kuratowski's Theorem</b>
11:30	Michelangelo Bucci, Aldo de Luca and Alessandro De Luca: <b>Rich and Periodic-like Words</b>

12:00 *Lunch break*

	— Session 2 — Hotel Telekom, Chair: Mikhail Volkov
14:00	Brandon Blakeley, Francine Blanchet-Sadri, Josh Gunter and Narad Rampersad: <b>On the Complexity of Deciding Avoidability of sets of Partial Words</b>
14:30	Simone Campanoni and Stefano Crespi Reghizzi: <b>Traces of control-flow graphs</b>
15:00	Olivier Carton: <b>Left and right synchronous relations</b>
15:30	Elena Czeizler, Eugen Czeizler, Lila Kari and Shinnosuke Seki: <b>An Extension of the Lyndon Schutzenberger Result to Pseudoperiodic Words</b>

16:00 *Coffee break*

	— Session 3 A — Hotel Telekom, Chair: Gwénaél Richomme	— Session 3 B — V38.04 CS Building, Chair: Juhani Karhumäki
16:30	Bruno Durand and Victor Poupet: <b>Asymptotic Cellular Complexity</b>	Aleksi Saarela: <b>On Complexity of Hmelevskii's Theorem and Satisfiability of Three Unknown Equations</b>
17:00	Dominik D. Freydenberger and Daniel Reidenbach: <b>Existence and Nonexistence of Descriptive Patterns</b>	Markku Laine and Wojciech Plandowski: <b>Word Equations with One Unknown</b>
17:30	Omer Egecioglu: <b>Strongly Regular Grammars and Regular Approximation of Context-Free Languages</b>	Tommi Lehtinen and Alexander Okhotin: <b>On equations over sets of numbers and their limitations</b>

## Wednesday, July 1, 2009

08:30	Invited talk <b>Christos Kapoutsis: Size Complexity of Two-Way Finite Automata</b> Hotel Telekom, Chair: Dietrich Kuske
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09:30 *Coffee break*

	— Session 4 — Hotel Telekom, Chair: Friedrich Otto
10:00	Emmanuel Jeandel and Guillaume Theyssier: <b>Subshifts, Languages and Logic</b>
10:30	Ingmar Meinecke: <b>A weighted <math>\mu</math>-calculus on words</b>
11:00	Fabio Mogavero and Aniello Murano: <b>Branching-Time Temporal Logics with Minimal Model Quantifiers</b>
11:30	Karin Quaas: <b>Weighted Timed MSO Logics</b>

12:00 *Lunch break*

	— Session 5 — Hotel Telekom, Chair: Zoltán Ésik
14:00	Daniel Kirsten: <b>The Support of a Recognizable Series Over a Zero-sum Free, Commutative Semiring is Recognizable</b>
14:30	Vassilis Kountouriotis, Christos Nomikos and Panos Rondogiannis: <b>A Game-Theoretic Characterization of Boolean Grammars</b>
15:00	Florin Manea, Victor Mitrana and Jose Sempere: <b>Some Remarks on Superposition Based on Watson-Crick-like Complementarity</b>
15:30	Antonio Restivo and Giovanna Rosone: <b>Balanced words having simple Burrows-Wheeler Transform</b>

16:00 *Coffee break*

	— Session 6 — Hotel Telekom, Chair: Giancarlo Mauri
16:30	Arseny Shur: <b>Two-sided bounds for the growth rates of power-free languages</b>
17:00	Rodrigo de Souza: <b>On the decidability of the equivalence for a certain class of transducers</b>
17:30	Georg Zetsche: <b>Erasing in Petri Net Languages and Matrix Grammars</b>
18:00	Makoto Kanazawa: <b>The Pumping Lemma for Well-Nested Multiple Context-Free Languages</b>

## Thursday, July 2, 2009

08:30	Invited talk <b>Mikołaj Bojańczyk: Factorization Forests</b> Hotel Telekom, Chair: Libor Polák
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09:30 *Coffee break*

	— Session 7 — Hotel Telekom, Chair: Massimiliano Goldwurm
10:00	Szilard Zsolt Fazekas: <b>Powers of regular languages</b>
10:30	Christiane Frougny and Anna Chiara Lai: <b>On negative bases</b>
11:00	Amy Glen, Bjarni V. Halldórsson and Sergey Kitaev: <b>Crucial words for abelian powers</b>
11:30	Hermann Gruber and Markus Holzer: <b>Tight Bounds on the Descriptive Complexity of Regular Expressions</b>

12:00 *Lunch break*

	<b>Business Meeting DLT</b>
14:15	Volker Diekert: <i>Statistics DLT 2009 in Stuttgart</i>
	Sheng Yu: <i>Presentation DLT 2010 in London, Ontario</i>
	Giancarlo Mauri: <i>Presentation DLT 2011 in Milano</i>

14:50 *Excursion to Tübingen*

19:30 *Conference dinner (in Tübingen)*

## Friday, July 3, 2009

08:30	Invited talk <b>Benjamin Steinberg: Matrix mortality and the Pin-Cerny Conjecture</b> Hotel Telekom, Chair: Géraud Sénizergues
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09:30 *Coffee break*

	— Session 8 — Hotel Telekom, Chair: Juraj Hromkovič
10:00	Pierluigi Frisco and Oscar Ibarra: <b>On Stateless Multihead Finite Automata and Multihead Pushdown Automata</b>
10:30	Holger Petersen: <b>Simulations by Time-Bounded Counter Machines</b>
11:00	Christoph Behle, Andreas Krebs and Stephanie Reifferscheid: <b>Regular Languages definable by Majority Quantifiers with two Variables</b>
11:30	Victor Selivanov and Oleg Kudinov: <b>Definability in the Infix Order on Words</b>

12:00 *Lunch break*

	— Session 9 — Best paper award V38.04 CS Building, Chair: Volker Diekert
13:30	Galina Jiraskova: <b>Magic Numbers and Ternary Alphabet</b>
14:00	Invited talk <b>Tero Harju: Post Correspondence Problem and Small Dimensional Matrices</b> V38.04 CS Building, Chair: Klaus-Jörn Lange

15:00 *Closing DLT 2009*

	<b>Festkolloquium on the occasion of the 65th birthday of Volker Claus</b>
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15:30 *Musical opening*

	Welcome by the dean Erhard Plödereder
	Johannes Blömer: <b>Universitäre Informatikausbildung</b>
	Dieter Fritsch: <b>Zur Evolution der akademischen Selbstverwaltung - Erfahrungen, Visionen und Hoffnungen</b>
	Hans-Ulrich Heiß: <b>Die Bedeutung des FTI</b>

16:30 *Coffee break*

	Peter Widmayer: <b>Bundeswettbewerb Informatik</b>
	Egon Börger: <b>Laudatio für Volker Claus</b>
	Contribution of the student council Computer Science and Software Engineering
	Volker Claus: <b>Dank und Abschied</b>

18:30 *Evening reception*