

CMC15

The 15th International Conference on Membrane Computing

August 20 – 22, 2014, Prague, Czech Republic



Program

Tuesday, August 19, 2014

17:30 – 20:00	Registration
18:00 – 19:00	Welcome Drink – Hotel Restaurant Il Giardino

Wednesday, August 20, 2014

08:30 – 09:00	Registration
09:00 – 09:05	Opening <i>Petr Sosík</i>
09:05 – 09:25	A special session devoted to Yurii Rogozhin's vita <i>Artiom Alhazov, Rudolf Freund and Sergey Verlan</i>

	Chair: Alberto Leporati
09:25 – 10:25	P Systems with Active Membranes Working in Sublinear Space <i>Claudio Zandron (with Alberto Leporati, Luca Manzoni, Giancarlo Mauri and Antonio E. Porreca)</i>
10:25 – 10:50	Simulating Turing Machines with Polarizationless P Systems with Active Membranes <i>Zsolt Gazdag, Miguel A. Gutiérrez-Naranjo and Gábor Kolonits</i>
10:50 – 11:20	Coffee Break
11:20 – 11:45	Polymorphic P Systems with Non-cooperative Rules and No Ingredients <i>Sergiu Ivanov</i>
11:45 – 12:10	P Systems with Toxic Objects <i>Artiom Alhazov and Rudolf Freund</i>
12:10 – 12:35	Promoters and Inhibitors in Purely Catalytic P Systems <i>Artiom Alhazov, Rudolf Freund and Sergey Verlan</i>
12:35 – 13:00	Causal Nets for Geometrical Gandy-Paun-Rozenberg Machines <i>Adam Obtulowicz</i>
13:00 – 14:30	Lunch – Hotel Restaurant Il Giardino
	Chair: Gheorghe Păun
14:30 – 15:30	P systems: A Formal Approach to Social Networks <i>Erzsébet Csuhaj-Varjú (with Marian Gheorghe and György Vaszil)</i>
15:30 – 15:55	Extended Simulation and Verification Platform for Kernel P Systems <i>Mehmet E. Bakir, Florentin Ipate, Savas Konur, Laurentiu Mierla and Ionut Mihai Niculescu</i>
15:55 – 16:25	Coffee Break
16:25 – 16:50	Length P Systems with a Lonesome Traveler <i>Artiom Alhazov, Rudolf Freund and Sergiu Ivanov</i>
16:50 – 17:15	P Systems with Anti-Matter <i>Artiom Alhazov, Bogdan Aman and Rudolf Freund</i>
17:15 – 17:40	A Short Note on Red-Green P Automata <i>Bogdan Aman, Erzsébet Csuhaj-Varjú and Rudolf Freund</i>
17:40 – 18:15	Informal talks and discussions <i>Adam Obtulowicz, Petr Sosík</i>
18:15 – 19:00	Steering Committee Meeting

Thursday, August 21, 2014

Chair: Mario J. Pérez-Jiménez	
09:00 – 10:00	From P Colonies to 2D P Colonies and to Simulations of Multiagent Systems <i>Luděk Cienciala</i>
10:00 – 10:25	The Abilities of P Colony Based Models in Robot Control <i>Luděk Cienciala, Lucie Ciencialová, Miroslav Langer and Michal Perdek</i>
10:25 – 10:50	Expressing Workflow and Workflow Enactment using P Systems <i>Rohit Verma, Tanveer Ahmed and Abhishek Srivastava</i>
10:50 – 11:20	Coffee Break
11:20 – 11:45	Membrane Computing Inspired Approach for Executing Scientific Workflow in the Cloud <i>Tanveer Ahmed, Rohit Verma and Abhishek Srivastava</i>
11:45 – 12:10	Fault Diagnosis Models for Electric Locomotive Systems Based on Fuzzy Reasoning Spiking Neural P Systems <i>Tao Wang, Gexiang Zhang and Mario J. Pérez-Jiménez</i>
12:10 – 12:35	Priorities, Promoters and Inhibitors in Deterministic Non-Cooperative P Systems <i>Artiom Alhazov and Rudolf Freund</i>
12:35 – 12:55	Presentation of CMC16 <i>José M. Sempere Luna</i>
12:55 – 13:15	Informal talks and discussions <i>Alberto Leporati</i>
13:15 – 14:45	Lunch – Hotel Restaurant Il Giardino
15:00	Meeting Point: Main NH Hotel Reception Visit of Prague Castle <ul style="list-style-type: none"> - Boat Trip on Vltava River - Conference Dinner at Kamenný Most Restaurant (by Charles Bridge), Smetanovo nábřeží 195, Prague 1 - Staré Město



Friday, August 22, 2014

Chair: Alica Kelemenová	
09:00 – 10:00	A Bioinspired Computing Approach to Model Complex Systems <i>Mario J. Pérez-Jiménez</i>

10:00 – 10:25	Probabilistic Guarded P systems, a New Formal Modelling Framework <i>Manuel García-Quismondo, Miguel Á. Martínez-Del-Amor and Mario J. Pérez-Jiménez</i>
10:25 – 10:50	P System Computational Model as Framework for Hybrid (Membrane-Quantum) Computations <i>Yurii Rogozhin, Artiom Alhazov, Liudmila Burtseva, Svetlana Cojocar, Alexander Colesnicov and Ludmila Malahov</i>
10:50 – 11:20	Coffee Break
11:20 – 11:45	Categorised Counting Mediated by Blotting Membrane Systems for Particle-based Data Mining and Numerical Algorithms <i>Thomas Hinze, Konrad Grützmann, Benny Höckner, Peter Sauer and Sikander Hayat</i>
11:45 – 12:10	Spiking Neural P Systems with Cooperating Rules <i>Padma Metta, Srinivasan Raghuraman and Kamala Krithivasan</i>
12:10 – 12:25	Notes on Spiking Neural P Systems with Structural Plasticity Computing Morphisms <i>Francis George Cabarle and Henry Adorna</i>
12:25 – 12:50	Simulating Elementary Active Membranes, with an Application to the P Conjecture <i>Alberto Leporati, Luca Manzoni, Giancarlo Mauri, Antonio E. Porreca and Claudio Zandron</i>
12:50 – 13:05	Graph Cluster Analysis by Lattice Based P System with Conditional Rules <i>Jie Xue and Xiyu Liu</i>
13:05 – 14:30	Lunch – Hotel Restaurant Il Giardino
	Chair: Rudolf Freund
14:30 – 15:30	Inconspicuous Appeal of Amorphous Computing Systems <i>Jiří Wiedermann</i>
15:30 – 15:55	Parallel Thinning with Complex Objects and Actors <i>Radu Nicolescu</i>
15:55 – 16:25	Coffee Break
16:25 – 16:50	Solving the ST-Connectivity Problem with Pure Membrane Computing Techniques <i>Zsolt Gazdag and Miguel A. Gutiérrez-Naranjo</i>
16:50 – 17:05	On the Dynamics of P Systems Based on Membrane Boundaries <i>Tamás Mihálydeák and Zoltán Ernő Csajbók</i>
17:05 – 17:40	Informal talks and discussions <i>Geixang Zhang, Sergiu Ivanov</i>
17:40 – 18:00	Best Paper Award, Closing