CMC18

18th International Conference on Membrane Computing

24-28 July, 2017, Bradford, UK

IMCS — International Membrane Computing Society

Program

Tuesday, 25th July

08:00 – 09:00	Registration
09:00 – 09:30	Opening session – Marian Gheorghe
	Chair: TBD
09:30 – 10:30	Erzsébet Csuhaj-Varjú (Invited talk) *Simple and Small: On Two Concepts in P Systems Theory*
10:30 – 11:00	Coffee/Tea break
11:00 – 11:25	José M. Sempere, *Families of Languages Encoded by SN P Systems*
11:25 – 11:50	Florin-Daniel Bîlbîe, Andrei Păun, *Universality of Spiking Neural P Systems with Communication on Request Using One Type of Spike*
11:50 – 12:15	Lucie Ciencialová, Luděk Cienciala, Erzsébet Csuhaj-Varjú, *APCol Systems with Teams*
12:15 – 12:40	Radu Nicolescu, *A Literate Programming Pearl in cP Systems*
12:40 – 13:05	Thomas Hinze, Benjamin Förster, *Event-based Life in a Nutshell:*

	How Evaluation of Individual Life Cycles Can Reveal Statistical Inferences using Action-accumulating P Systems
13:05 – 14:00	**Lunch break & demos**
	Chair: TBD
14:30 – 14:55	Kristóf Kántor, György Vaszil, *Generalized P Colony Automata and Their Relation to P Automata*
14:55 – 15:25	**Coffee/Tea Break**
15:25 – 15:50	Ren Tristan de la Cruz, Francis George Cabarle, Xiangxiang Zeng, *On Languages Generated by Spiking Neural P System with Structural Plasticity*
15:50 – 16:15	Linqiang Pan, Bosheng Song, Gexiang Zhang, *Tissue P Systems with Rule Production/Removal*
16:15 – 16:40	Richelle Ann Juayong, Nestine Hope Hernandez, Francis George Cabarle, Henry Adorna, Kelvin Buño, *On Evolution-Communication P systems with Energy Having Bounded and Unbounded Communication*
16:40 – 17:05	Bogdan Aman, Gabriel Ciobanu, *Reversibility in Bio-Inspired Systems*
17:05 – 19:00	**IMCS assembly**

Wednesday, 26th July

	Chair: TBD
09:00 – 10:00	**Harold Fellermann (Invited talk)** ***Toward Programmable Biology: Techniques for Computing in and with Cells***
10:00 – 10:25	G. Michele Pinna, *Reversing Steps in Membrane Systems Computations*
10:25 – 10:55	**Coffee/Tea break**
10:55 – 11:20	Roberto Barbuti, Roberta Gori, Paolo Milazzo, *Multiset Patterns and their Application to Dynamic Causalities in Membrane Systems*
11:20 – 11:45	Raluca Lefticaru, Mehmet Emin Bakir, Savas Konur, Mike Stannett, Florentin Ipate, *Modelling and Validating an Engineering Application in Kernel P Systems*
11:45 – 12:10	Luis Valencia-Cabrera, David Orellana-Martín, Agustín Riscos-Núñez, Mario J. Pérez-Jiménez, *Counting Membrane Systems*
12:15 – 13:30	**Lunch**
13:45 –	**Trip to Saltaire**
19:00 –	**Conference dinner**

Thursday, 27th July

	Chair: TBD
09:00 – 10:00	**Maciej Koutny (Invited talk)** *Petri Net Based Synthesis of Tissue Systems*
10:00 – 10:25	Erzsébet Csuhaj-Varjú, Sergey Verlan, *Bi-simulation Between P Colonies and P Systems with Multi-stable Catalysts*
10:25 – 10:55	**Coffee/Tea break**
10:55 – 11:20	Petr Sosík, Vladimír Smolka, Jan Drastík, Jaroslav Bradík, Max Garzon, *On the Robust Power of Morphogenetic Systems for Time Bounded Computation*
11:20 – 11:45	Artiom Alhazov, Rudolf Freund, Sergiu Ivanov, *Communication P Systems with Randomized Rule Right-hand Sides*
11:45 – 12:10	Alberto Leporati, Luca Manzoni, Giancarlo Mauri, Antonio E. Porreca, Claudio Zandron, *Solving a Special Case of the P Conjecture Using Dependency Graphs with Dissolution*
12:10 – 12:35	Henry Adorna, Artiom Alhazov, Linqiang Pan, Bosheng Song, *Simulating Evolutional Symport/Antiport by Evolution-Communication and vice versa in Tissue P Systems with Parallel Communication*
12:35 – 13:00	Nestine Hope Hernandez, Henry Adorna, *A Simulation of Transition P Systems in Numerical P Systems with Migrating Variables*
13:00 – 14:30	**Lunch & posters**
	Chair: TBD
14:30 – 14:55	Kelvin Buño, Henry Adorna, Linqiang Pan, Bosheng Song, *Communication Complexity of Distributed Tissue-like P Systems for Solving SAT Problem*
14:55 – 15:25	**Coffee/Tea break**
15:25 – 16:25	**Michael Fessing (Invited talk)** *Epigenetic Regulation of Gene Expression in Health and Disease*
16:25 – 16:50	Ivan Cedric Macababayao, Erika Mika Amores, Nestine Hope Hernandez, Francis George Cabarle, *Deterministic and Uniform Solutions to NP-Complete Problems using Numerical P Systems with Lower Thresholds*
16:50 – 17:15	Xiyu Liu, Yuzhen Zhao, Wenping Wang, Wenxing Sun, *An Improved Partitioning Around Medoids Algorithm Based on Time-Free Cell-Like P Systems with Multi-Promoters and Multi-Inhibitors*
17:15 – 17:40	Ping Guo, Yunlei Dai, *A P System for Travelling Salesman Problem*
17:50 – 18:05	CMC19 presentation
18:05 – 18:40	**Awards**
18:40 – 18:50	Closing ceremony

Friday, 28th July

09:00 – 10:25	Interactions
10:25 – 10:55	**Coffee/Tea break**
10:55 – 13:00	Interactions

Venue

The conference will be hosted by [DHEZ (Digital Health Enterprise Zone)](#), conveniently located in the centre of Bradford, 34 Peckover St, BD1 5BD.