



Conference program

Monday, 25th of July – (Building U6, floor -1, near to Aula Martini U6-04)

8:30 – 9:30: **Registration**

9:30 – 9:45: **Opening Speech** – Claudio Zandron, Chair of the CMC Steering Committee

Presentations of research groups – Session Chair: Claudio Zandron

9:45 – 10:30: *Presentations of research groups*

10:30 – 11:00: **Coffee break**

11:00 – 12:30: *Presentations of research groups*

12:30 – 14:00: **Lunch**

14:00 – 15:30: *Presentations of research groups*

15:30 – 16:00: **Coffee break**

16:00 – 17:30: *Presentations of research groups*

18:00 – 19:30: **Welcome cocktail**

Tuesday, 26th of July – (Building U6, floor -1, Aula Martini U6-04)

9:30 – 9:45: **Opening Speech** – Alberto Leporati, Claudio Zandron, *Chairs of CMC 17 Organizing Committee*

9:45 – 10:15: Gheorghe Păun, *Obituary for Solomon Marcus*

10:15 – 10:45: **Coffee break**

Session Chair: Alberto Leporati

10:45 – 11:10: Bogdan Aman, Gabriel Ciobanu, *Computational Power of Protein Networks*

11:10 – 11:35: Gabriel Ciobanu, Enea Nicolae Todoran, *Continuation Passing Semantics for Membrane Systems*

11:35 – 12:00: Lucie Cencialová, Luděk Cenciala, Petr Sosík, *P Colonies with evolving environment*

12:00 – 12:15: Erzsébet Csuhaj-Varjú, *Extensions of P Colonies*

12:15 – 12:30: Ákos Balaskó, Erzsébet Csuhaj-Varjú, *Traces of Computations by Generalized Communicating P Systems*

12:30 – 14:00: **Lunch**

Session Chair: Gheorghe Păun

14:00 – 15:00: Thomas Hinze (Invited Talk)

Coping with Dynamical Structures for Useful Applications of Membrane Computing

15:00 – 15:25: Artiom Alhazov, Omar Belingheri, Rudolf Freund, Sergiu Ivanov, Antonio E. Porreca, Claudio Zandron, *Purely Catalytic P Systems over Integers and Their Generative Power*

15:25 – 15:50: Artiom Alhazov, Omar Belingheri, Rudolf Freund, Sergiu Ivanov, Antonio E. Porreca, Claudio Zandron, *Semilinear Sets, Register Machines, and Integer Vector Addition (P) Systems*

15:50 – 16:20: **Coffee break**

Session Chair: Marian Gheorghe

16:20 – 16:45: Artiom Alhazov, Bogdan Aman, Rudolf Freund, Sergiu Ivanov, *Simulating R Systems by P Systems*

16:45 – 17:10: Artiom Alhazov, Rudolf Freund and Sergey Verlan, *Maximal Variants of the Set Derivation Mode*

17:10 – 17:25: Giuditta Franco, *On minimal multiset grammars*

17:25 – 17:40: José M. Sempere, *A characterization of symport/antiport P systems through Information Theory*

17:40 – 19:40: **Meeting of the IMCS**

Meeting of the Steering Committee

Wednesday, 27th of July – (Building U6, floor -1, Aula Martini U6-04)

Session Chair: Claudio Zandron

9:30 – 10:30: Paolo Milazzo (Invited Talk)

Applications of P systems in population biology and ecology

10:30 – 11:00: **Coffee break**

Session Chair: Erzsébet Csuhaj-Varjú

11:00 – 11:25: Thomas Hinze, Lea Louise Weber, Uwe Hatnik, *Walking Membranes: Grid-exploring P Systems with Artificial Evolution for Multi-purpose Topological Optimisation of Cascaded Processes*

11:25 – 11:50: Radu Nicolescu, *Data Structures with cP Systems or Byzantine Succintly*

11:50 – 12:15: Andrei George Florea, Cătălin Buiu, *Secure dispersion of robots in a swarm using P colonies*

12:15 – 12:30: Kang Huang, *Transmission Line Fault Classification Based on Fuzzy Reasoning Spiking Neural P Systems*

12:30 – 14:00: **Lunch**

15:00 – ??: **Social events: tour in Milano + social dinner**

Thursday, 28th of July – (Building U6, floor -1, Aula Martini U6-04)

Session Chair: Alberto Leporati

9:30 – 10:30: Agustín Riscos-Núñez (Invited Talk)

Borderlines of efficiency: what's up?

10:30 – 11:00: **Coffee break**

Session Chair: José Sempere

11:00 – 11:25: Zsolt Gazdag, Gábor Kolonits, *Remarks on the Computational Power of Some Restricted Variants of P Systems with Active Membranes*

11:25 – 11:50: Alberto Leporati, Luca Manzoni, Giancarlo Mauri, Antonio E. Porreca, Claudio Zandron, *Shallow Non-Confluent P Systems*

11:50 – 12:15: Linqiang Pan, Bosheng Song, K.G. Subramanian, *Rewriting P Systems with Flat-splicing Rules*

12:15 – 12:30: Péter Battyányi, György Vaszil, *Chemical Term Reduction with Active P Systems*

12:30 – 14:00: **Lunch**

Session Chair: Gexiang Zhang

14:00 – 15:00: Matteo Cavaliere (Invited Talk)

Eco-Evo Dynamics and the Role of Cellular Computing

15:00 – 15:25: Mehmet Emin Bakir, Marian Gheorghe, Savas Konur, Mike Stannett, *Comparative Analysis of Statistical Model Checking Tools*

15:25 – 15:50: Marian Gheorghe, Rodica Ceterchi, Florentin Ipate, Savas Konur, *Kernel P Systems Modelling, Testing and Verification - Sorting Case Study*

15:50 – 16:20: **Coffee break**

Session Chair: Thomas Hinze

16:20 – 16:45: Raluca Lefticaru, Luis Felipe Macías-Ramos, Ionuț Mihai Niculescu, Laurențiu Mierlă, *Agent-Based Simulation of Kernel P Systems with Division Rules Using FLAME*

16:45 – 17:00: Kristóf Kántor, György Vaszil, *Recent Results and Problems Concerning P Colony Automata*

17:00 – 17:15: **Presentation of the next CMC Venue**

17:15 – 17:30: **Best paper award**

17:30 – 17:45: **Springer prize: Best student paper award**

17:45 – 18:00: *Closing*

Friday, 29th of July – (Building U6, floor -1, Aula Martini U6-04)

Interaction Day

9:30 – 10:30: *Results obtained during the Conference + Joint Work*

10:30 – 11:00: *Coffee break*

11:00 – 12:30: *Results obtained during the Conference + Joint Work*

12:30 – 12:45: *Closing*
