TENTH WORKSHOP ON MEMBRANE COMPUTING, WMC10
Curtea de Argeș, Romania, August 24–27, 2009

PROGRAM

Monday, August 24

  8.30 – 10.00: Registration
  10.00 – 10.30: Opening ceremony
  10.30 – 11.00: Coffee break
  11.00 – 11.45: S. Marcus (invited speaker): Bridging membrane computing
                 and biosemiotics
  11.45 – 12.05: R. Freund, M. Kogler: Hybrid transition modes in (tissue) P systems
  12.05 – 12.35: A. Castellini, V. Manca, Y. Suzuki: Metabolic P system flux regulations
                 by artificial neural networks
                 tractability by tissue-like P systems
  13.00 – 14.30: Lunch
  15.00 – 15.45: E. Csuhaj-Varjú (invited speaker): P automata: Concepts,
                 results and new aspects
                 simulation of polynomial-space Turing machines by P systems
                 with active membranes
                 signalling networks with incomplete information about protein activation states:
                 A P system framework of the KaiABC oscillator
  16.35 – 17.00: Coffee break
  17.00 – 17.30: R. Nicolescu, M.J. Dinneen, Y.-B. Kim: Discovering the membrane topology
                 of hyperdag P systems
  17.30 – 17.40: L. Cienciala, L. Ciencialová: Eco-P colonies
  18.00 – 19.30: Visit of Curtea de Argeș Monastery
  18.00 – 20.00: PhD course about software engineering approaches in membrane systems
                 (M. Gheorghe, F. Ipate, V. Manca, M.J. Pérez-Jiménez)
  20.00 – 22.00: Dinner
Tuesday, August 25

9.00 – 9.45: **R. Freund (invited speaker): Transition and halting modes for tissue P systems**

9.45 – 10.30: **P. Frisco (invited speaker): Conformon P systems and topology of information flow**


10.50 – 11.00: A. Obtulowicz: Approaching a question of biologically plausible applications of spiking neural P systems

11.00 – 11.30: Coffee break

11.30 – 12.00: P. Sosik, A. Păun, A. Rodriguez-Patón, D. Pérez: On the power of computing with proteins on membranes


12.40 – 12.50: I.I. Ardelean: Could procaryotic (as well as eukaryotic cells) provide software and hardware for P systems based computers?

13.00 – 14.30: Lunch

15.00 – 15.45: **M. Gheorghe (invited speaker): Formal verification and testing based on P systems**

15.45 – 16.05: J. Wang, H.J. Hoogeboom, L. Pan, Gh. Păun: Spiking neural P systems with weights and thresholds

16.05 – 16.35: M.A. Gutiérrez-Naranjo, M.J. Pérez-Jiménez: Searching previous configurations in membrane computing

16.35 – 17.00: Coffee break

17.00 – 17.30: O. Agrigoroaiei, G. Ciobanu, A. Resios: Evolving by maximizing the number of rules: Complexity study

17.30 – 19.00: Special session: WMC10 awards, WMC11 venue, EMCC meeting, others

20.00 – ??.??: Workshop special dinner
Wednesday, August 26

9.00 – 9.45: O.H. Ibarra (invited speaker): A look back at some early results in membrane computing

9.45 – 10.30: V. Manca (invited speaker): From P to MP systems


10.40 – 11.00: A. Alhazov, E. Boian, S. Cojocaru, Yu. Rogozhin: Modelling inflections in Romanian language by P systems with string replication

11.00 – 11.30: Coffee break


11.50 – 12.00: Gh. Ştefănescu, T. Şerbănuţă, C. Chira, G. Roşu: P systems with control nuclei

12.00 – 12.20: P. Cazzaniga, G. Mauri, L. Milanesi, E. Mosca, D. Pescini: A novel variant of tissue P systems for the modelling of biochemical systems


13.00 – 14.30: Lunch

15.00 – ?:?:?: Excursion to mountains, with dinner
Thursday, August 27

9.00 – 9.45: G. Mauri (invited speaker): Energy-based models of P systems
10.30 – 10.50: B. Aman, G. Ciobanu: Typed membrane systems
10.50 – 11.00: N. Murphy, D. Woods: Uniformity - uncovering the frontier of parallelism
11.00 – 11.30: Coffee break
11.30 – 11.50: S. Verlan: Look-ahead evolution for P systems
11.50 – 12.10: V. Nguyen, D. Kearney, G. Gioiosa: A region-oriented hardware implementation of membrane computing applications and its integration into Reconfig-P
12.10 – 12.30: G. Franco, V. Manca, R. Pagliarini: Regulation and covering problems in MP systems
13.00 – 14.30: Lunch

15.20 – 15.40: T.Y. Nishida: Reversible P systems with symport/antiport rules
15.40 – 16.00: A. Alhazov, K. Morita: On reversibility and determinism in P systems
16.00 – 16.20: R. Lefticaru, F. Ipate, M. Gheorghe, G. Zhang: Tuning P systems for solving the broadcasting problem
16.30 – 17.00: Coffee break
17.00 – 17.20: J.A. de Frutos, L. Fernandez, F. Arroyo: Decision trees for obtaining active rules in transition P systems
17.20 – 17.30: V. Mitrana, J.M. Sempere: Accepting evolutionary P systems
17.30 – 17.45: Closing
20.00 – 21.30: Dinner