

About CMC14

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In the period of August 20–23, 2013 the 14th International Conference on Membrane Computing, CMC14 (<http://www.math.md/cmc14/>), took place in Chişinău, Moldova.

The goal of CMC14 was to bring together researchers working in membrane computing and related fields, in a friendly atmosphere enhancing communication, cooperation and continuing the tradition of past meetings.

The CMC series was initiated by Gheorghe Păun as the Workshop on Multiset Processing in the year 2000. Then two workshops on Membrane Computing were organized in Curtea de Argeş, Romania, in 2001 and 2002. A selection of papers of these three meetings was published as volume 2235 of the Lecture Notes in Computer Science (LNCS) series, as a special issue of *Fundamenta Informaticae* (volume 49, numbers 1-3, 2002), and as volume 2597 of Lecture Notes in Computer Science, respectively. The next six workshops were organized in Tarragona, Spain (in July 2003), Milan, Italy (in June 2004), Vienna, Austria (in July 2005), Leiden, The Netherlands (in July 2006), Thessaloniki, Greece (in June 2007), and Edinburgh, UK (in July 2008), with the proceedings published in Lecture Notes in Computer Science as volumes 2933, 3365, 3850, 4361, 4860, and 5391, respectively. The 10th workshop returned to Curtea de Argeş in August 2009 (LNCS volume 5957). From the year 2010, the series of meetings on membrane computing continued as the Conference on Membrane Computing with the 2010, 2011 and 2012 editions held in Jena, Germany (LNCS volume 6501), Fontainebleau, France (LNCS volume 7184), and Budapest, Hungary (LNCS volume 7762).

A Steering Committee takes care of the continuation of the CMC series which is organized under the auspices of the European Molecular

Computing Consortium. In 2013, also a regional version of CMC, the Asian Conference on Membrane Computing, ACMC, takes place in Chengdu, China.

In 2013 the CMC14 conference was organized by the Institute of Mathematics and Computer Science (IMSC) of the Academy of Sciences of Moldova in conjunction with the International Conference on Intelligent Information Systems, IIS 2013. These conferences were dedicated to the 50th anniversary of the IMCS (in spring 2014).

The official common opening of both scientific events was held on August 20, 2013 in the Conference Hall of the Central Scientific Library “A. Lupan” of the Academy of Sciences of Moldova. According



Figure 1. Common opening of CMC14 and IIS 2013 – Welcome speech by Prof. Dr. habil. Svetlana Cojocaru

to the Director of the IMCS, Prof. Dr. habil. Svetlana Cojocaru, who chaired the meeting, the organization of two events in parallel will en-

About CMC14

hance further communication between the researchers in these domains and will produce a synergistic effect, generating new knowledge, new relationships and new results.

Following her welcome speech, Prof. Dr. habil. Yurii Rogozhin, co-chair of CMC14 Program Committee delivered his warmest welcome and sincere thanks to all the participants for attending these important scientific events.



Figure 2. Common opening of CMC14 and IIS 2013 – Welcome speech by Prof. Dr. habil. Yurii Rogozhin

First Deputy President of the Academy of Sciences of Moldova, Academician Ion Tiginyanu greeted the participants on behalf of the Academy of Sciences of Moldova. Other honorable guests also gave their welcoming addresses to participants: Prof. Gheorghe Păun, Academician of the Romanian Academy, inventor of membrane computing; Prof. Dr. Marian Gheorghe, chair of CMC14 Steering Committee, co-chair of CMC14 Program Committee; Academician Valeriu Kantser, President of the National Council for Accreditation and Attestation;

Academician Mitrofan Ciobanu, President of the Mathematical Society of the Republic of Moldova.



Figure 3. Common opening of CMC14 and IIS 2013 – Welcome speech by Academician Ion Tiginyanu

The opening session was continued with the invited talks: “New vision and future of informatics” by Prof. Jozef Gruska (Brno, Czech Republic), “Some open problems about catalytic, numerical, and spiking neural P systems” by Prof. Gheorghe Păun (Bucharest, Romania/Seville, Spain), and “Wiki-Translator: Multilingual Experiments for In-Domain Translations” by Prof. Dan Tufis (Bucharest, Romania).

On August 20, 2013, the first day of the conference, a special session was dedicated to the defense of Doctor habilitation thesis “Small abstract machines” by Artiom Alhazov.

On August 21-23, 2013 other presentations were made by the CMC14 invited speakers: “Kernel P systems – A survey” by Marian Gheorghe (Sheffield, UK), “Computational complexity of P systems with active membranes” by Alberto Leporati (Milan, Italy), “Computational complexity in membrane computing: issues and challenges” by Petr Sosík (Opava, Czech Republic), and “Using the formal framework for P systems” by Sergey Verlan (Paris, France).

In the framework of CMC14 there were published and presented

About CMC14



Figure 4. Common opening of CMC14 and IIS 2013 – Welcome speech by Prof. Gheorghe Păun, Prof. Dr. Marian Gheorghe, Academician Valeriu Kantser and Academician Mitrofan Ciobanu

as reports 6 invited papers, 17 regular papers, and 9 short papers of authors from Austria, Czech Republic, France, Hungary, Italy, New Zealand, Philippines, Poland, Republic of Moldova, Romania, Spain, and UK. 35 scientists attended the conference.

The invited papers and selected regular papers of the conference will be published at the Lecture Notes in Computer Science (Springer Publisher). The next edition of Membrane Computing Conference (CMC15) will take place in the next year 2014 in Prague, Czech Republic.



Figure 5. Common opening of CMC14 and IIS 2013 – Participants