

CMC13 - The 13th International Conference on Membrane Computing

August 28-31, 2012, Budapest, Hungary



Invited speakers:

Rudolf Freund (Vienna, Austria)
Vincenzo Manca (Verona, Italy)
Solomon Marcus (Bucharest, Romania)
Yurii Rogozhin (Chişinău, Moldova)

Invited speakers of the special sessions:

Jozef Kelemen (Bratislava, Slovakia/Opava, Czech Republic)
Mike Stannett (Sheffield, UK)

Program committee:

Artiom Alhazov (Chişinău, Moldova/Milan, Italy)
Gabriel Ciobanu (Iaşi, Romania)
Erzsébet Csuhaj-Varjú (Budapest) - *co-chair*
Giuditta Franco (Verona, Italy)
Rudolf Freund (Vienna, Austria)
Pierluigi Frisco (Edinburgh, UK)
Marian Gheorghe (Sheffield, UK) - *co-chair*
Oscar H. Ibarra (Santa Barbara, USA)
Florentin Ipate (Piteşti, Romania)
Shankara Narayanan Krishna (Mumbai, India)
Alberto Leporati (Milan, Italy)
Vincenzo Manca (Verona, Italy)
Maurice Margenstern (Metz, France)
Giancarlo Mauri (Milan, Italy)
Linqiang Pan (Wuhan, China)
Andrei Păun (Ruston, USA/Bucharest, Romania)
Gheorghe Păun (Bucharest, Romania/Seville, Spain)
Mario J. Pérez-Jiménez (Seville, Spain)
Francisco J. Romero-Campero (Seville, Spain)
Dragoş Sburlan (Constanţa, Romania)
György Vaszil (Debrecen, Hungary) - *co-chair*
Sergey Verlan (Paris, France)
Claudio Zandron (Milan, Italy)

Important dates:

Extended submission deadline: May 10, 2012
Notification of acceptance: June 8, 2012
Final version: July 2, 2012

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Url: <http://www.sztaki.hu/tcs/cmc13/>

The CMC conference series was initiated by Gheorghe Păun as the Workshop on Multiset Processing in 2000. The first *Workshop on Membrane Computing* was organized in Curtea de Argeş, Romania, in 2001. The last two conferences were held in Fontainebleau/Paris, France (2011) and Jena, Germany (2010). Nowadays a Steering Committee takes care of the continuation of the CMC series which is organized under the auspices of the European Molecular Computing Consortium (EMCC).

Organizing institution

The Computer and Automation Research Institute of the Hungarian Academy of Sciences, in cooperation with the PhD School of Computer Science, and the Department of Algorithms and Their Applications, Faculty of Informatics, Eötvös Loránd University, and with the Department of Computer Science, Faculty of Informatics, University of Debrecen.

Aims and scope

The goal of CMC13 is 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. Membrane computing is an area of computer science aiming to abstract computing ideas and models from the structure and the functioning of living cells, as well as from the way the cells are organized in tissues or higher order structures. It deals with membrane systems, also called P systems, which are distributed and parallel algebraic models processing multisets of objects in a localized manner (evolution rules and evolving objects are encapsulated into compartments delimited by membranes), with an essential role played by the communication among compartments and with the environment.

Special sessions

A special session will be devoted to *formalisms as process calculi and Petri nets, and their relationships with membrane computing*; original research papers that contain theoretical links and comparison between different models are sought. The established links should introduce new notions and research directions relevant to the membrane systems community. As part of the celebrations of the Turing Centenary, a special session will also be dedicated to *the relationships between Turing computability and membrane computing as an unconventional computing paradigm*.

Submissions

Authors are invited to submit papers presenting original, unpublished research as a PDF document. There are two tracks for submission: (1) full paper (of a reasonable length), (2) extended abstract for poster presentation (maximum four pages). Only electronic submissions are accepted, please follow the instructions on the *conference website*.

Proceedings

A pre-proceedings volume will be available at the conference. We anticipate that a volume devoted to selected and additionally revised papers will be published in the *Lecture Notes in Computer Science* series of Springer-Verlag after the event.