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ICMC 2020

International Conference on Membrane Computing

SEPTEMBER 14-18, 2020

ULAANBAATAR MONGOLIA | VIENNA AUSTRIA | TU WIEN

GHEORGHE PĂUN • 70TH BIRTHDAY

ACMC | ECMC

CONFERENCE CHAIRS: Rudolf Freund, TU Wien, AUSTRIA • Tseren-Onolt Ishdorj, MUST, MONGOLIA

Deadline **July 13, 2020** • Notification **August 10, 2020** • Final versions **September 7, 2020**

The 9th ACMC 2020, Ulaanbaatar and the 21st ECMC 2020, Vienna, due to the current circumstances of the COVID-19 outbreak, are united in one joint electronic event the ICMC 2020.

INVITED SPEAKERS

• Gheorghe Păun, The Romanian Academy
• Fan-Gang Tseng, National Tsing-Hua University
• Mario J. Pérez-Jiménez, Universidad de Sevilla
• Henry H. Adorna, UPDiliman
• Artiom Alhazov, Andrunachievici Inst. of Math and CS
• Lucie Ciencialová, Silesian University in Opava

TOPICS

1. Theoretical aspects of membrane computing
• Various variants of computing models: cell-, tissue- and neural-like P systems
• Computing power of membrane computing models
• Computing efficiency of membrane computing models

2. Applications of membrane computing
• Robots controller design
• Modeling using P systems for biosystems, ecosystems, etc
• Membrane-inspired optimization algorithms
• Fault diagnosis of various systems, such as power systems, etc
• Information and communication technologies, crypthography
• Other applications

3. Implementation of membrane computing models
• Software and hardware implementation
• Biological implementation
• Biochip implementation
• Other implementations

4. Related topics
• Other topics related to natural computing, DNA computing, etc

PUBLICATION

(1) Papers accepted for presentation will appear in electronic Pre-Proceedings volume of ICMC 2020
(2) A selection of the accepted papers will be published in the Springer Book "Lecture Notes in Computer Science (LNCS)"
(3) A selection of the accepted papers will be published in the Springer journal "Journal of Membrane Computing (JMC)"
(4) A selection of the accepted papers will be published in the Special Issue of Elsevier journal "Information Sciences"

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