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GHEORGHE PĂUN • 70TH BIRTHDAY

ICMC^P 2020

International Conference on Membrane Computing

SEPTEMBER 14-18, 2020



ULAANBAATAR
MONGOLIA

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

Deadline **August 10, 2020** • Notification **September 1, 2020** • Final version **September 10, 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 Cencialová, 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, cryptography
- 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"
- (5) A selection of the accepted papers will be published in the Special Issue of MDPI Open Access journal "Processes"

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