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, cryptophraphy
   • 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

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
2. Applications of membrane computing
3. Implementation of membrane computing models
4. Related topics

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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