Special Issue

Membrane Computing: Theory, Methods and Applications

Message from the Guest Editors

Membrane computing is a known branch of natural computing aiming to abstract computing ideas and formal models from the structure and functioning of living cells, as well as from the organization of cells in tissues, organs, or other higher-order structures such as colonies of cells. There are several research directions: (i) theoretical aspects such as studies on computational power using limited numbers and types of resources, as well as efficient algorithms for solving NP-complete problems and modeling capabilities; (ii) applications in many fields such as graphics, engineering, robotics, and biology. Several books including theoretical results and various applications in the field of membrane computing have recently been published. This Special Issue collects original research works about recent advances in membrane computing. The list of topics includes, but is not limited to:

- New membrane system architectures and variants;
- Studies on the computational power, computing efficiency, and computational complexity of membrane systems;
- Applications of membrane systems in real problems;
- Software tools to aid in the modeling, verification, and simulation of membrane systems.

Guest Editors

Prof. Dr. Gabriel Ciobanu

Institute of Computer Science, IIT, Romanian Academy (Iasi branch), A.I. Cuza University, 700481 Iasi, Romania

Dr. Bogdan Aman

Institute of Computer Science, Romanian Academy, 700505 Iaşi, Romania

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Mathematics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
mathematics@mdpi.com

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About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

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