# Membrane Computing: Theory, Methods and Applications

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## 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.

Special Issue

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## Message from the Editor-in-Chief

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