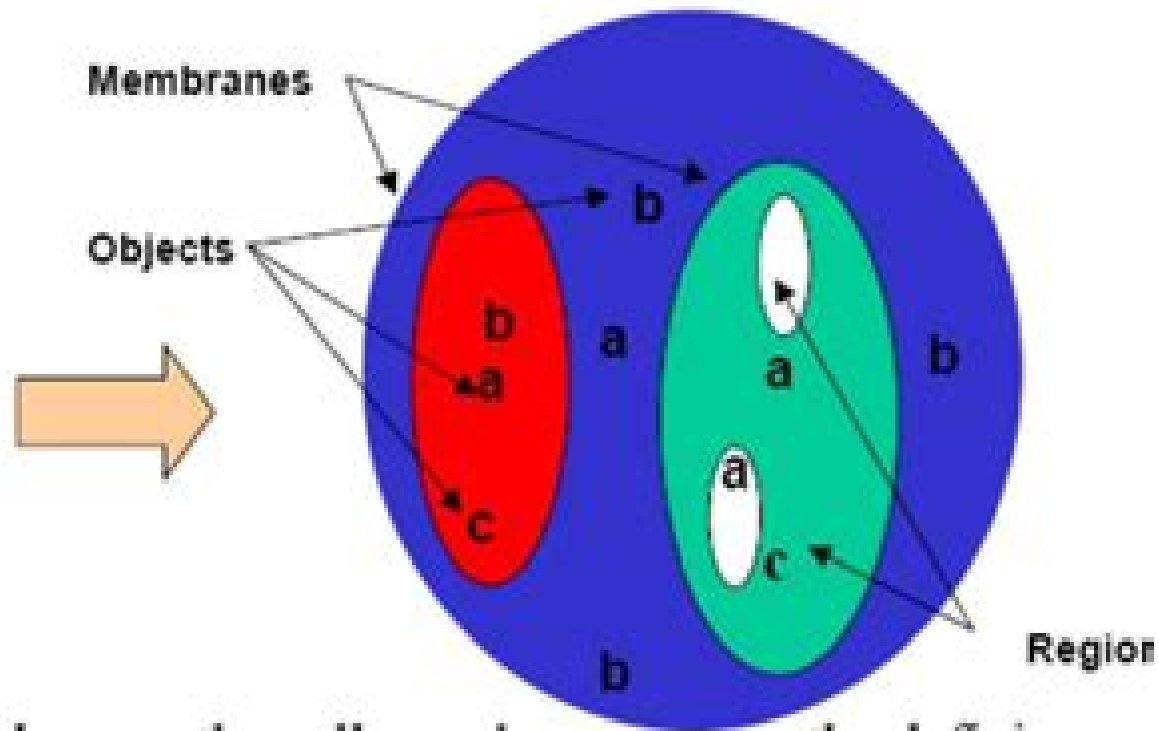
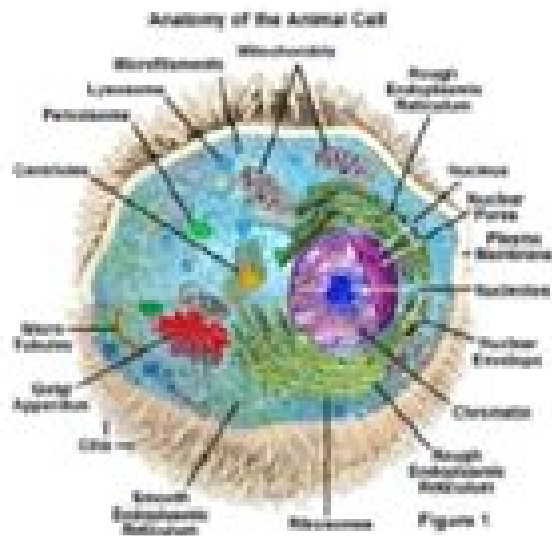


From cell to membrane computing



All cells are enclosed by membranes; the cell membrane acts as the defining principle of what constitutes a cell and the rest of the world. Cells need to be able to transport proteins, DNA, and ions across the membrane.

Membrane Computing Membrane Computing

**Gexiang Zhang, Mario J. Pérez-
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Computing with Cells Pierluigi Frisco, 2009-05-21 Membrane systems are a new class of distributed and parallel model of computation inspired by the subdivision of living cells into compartments delimited by membranes Their hierarchical internal structure their locality of interactions their inherent parallelism and also their capacity to create new compartments represent the distinguishing hallmarks of membrane systems Membrane computing the study of membrane systems is a fascinating and fast growing area of research The main streams of current investigations in Membrane Computing concern theoretical computer science and the modelling of complex systems In this monograph Pierluigi Frisco considers the former trend he presents an in depth study of the formal language and computational complexity aspects of the most widely investigated models of membrane systems This study gives a comprehensive understanding of the computational power of the models considered shows different proof techniques used for such study and introduces links highlighting the similarities and differences between the their computational power These models cover a broad range of features giving a grasp of the enormous flexibility of the framework offered by membrane systems Aimed at graduates and researchers in the field who can use it as a reference text and to people with an initial interest in Membrane Computing who can use it as a clear and up to date starting point for Membrane Computing

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Applications of Membrane Computing in Systems and Synthetic Biology Pierluigi Frisco, Marian Gheorghe, Mario J. Pérez-Jiménez, 2013-12-17 Membrane Computing was introduced as a computational paradigm in Natural Computing The models introduced called Membrane or P Systems provide a coherent platform to describe and study living cells as computational systems Membrane Systems have been investigated for their computational aspects and employed to model problems in other fields like Computer Science Linguistics Biology Economy Computer

Graphics Robotics etc Their inherent parallelism heterogeneity and intrinsic versatility allow them to model a broad range of processes and phenomena being also an efficient means to solve and analyze problems in a novel way Membrane Computing has been used to model biological systems becoming with time a thorough modeling paradigm comparable in its modeling and predicting capabilities to more established models in this area This book is the result of the need to collect in an organic way different facets of this paradigm The chapters of this book together with the web pages accompanying them present different applications of Membrane Systems to Biology Deterministic non deterministic and stochastic systems paired with different algorithms and methodologies show the full potential of this framework The book is addressed to researchers interested in applications of discrete biological models and the interplay between Membrane Systems and other approaches to analyze complex systems *Applications of Membrane Computing* Gabriel Ciobanu, Mario J. Pérez-Jiménez, Gheorghe Păun, 2007-08-06

Membrane computing is a branch of natural computing which investigates computing models abstracted from the structure and functioning of living cells and from their interactions in tissues or higher order biological structures The models considered called membrane systems P systems are parallel distributed computing models processing multisets of symbols in cell like compartmental architectures In many applications membrane systems have considerable advantages among these are their inherently discrete nature parallelism transparency scalability and nondeterminism In dedicated chapters leading experts explain most of the applications of membrane computing reported so far in biology computer science computer graphics and linguistics The book also contains detailed reviews of the software tools used to simulate P systems **Membrane Computing Models: Implementations** Gexiang Zhang, Mario J. Pérez-Jiménez, Agustín Riscos-Núñez, Sergey Verlan, Savas Konur, Thomas Hinze, Marian Gheorghe, 2021-07-01

The theoretical basis of membrane computing was established in the early 2000s with fundamental research into the computational power complexity aspects and relationships with other unconventional computing paradigms Although this core theoretical research has continued to grow rapidly and vigorously another area of investigation has since been added focusing on the applications of this model in many areas most prominently in systems and synthetic biology engineering optimization power system fault diagnosis and mobile robot controller design The further development of these applications and their broad adoption by other researchers as well as the expansion of the membrane computing modelling paradigm to other applications call for a set of robust efficient reliable and easy to use tools supporting the most significant membrane computing models This work provides comprehensive descriptions of such tools making it a valuable resource for anyone interested in membrane computing models Membrane Computing Thomas Hinze, Grzegorz Rozenberg, Arto Salomaa, Claudio Zandron, 2019-01-31 This book constitutes revised selected papers from the 19th International Conference on Membrane Computing CMC19 CMC 2018 which was held in Dresden Germany in September 2018 The 15 papers presented in this volume were carefully reviewed and selected from 20 submissions The contributions aim to abstract computing ideas and models from the structure and the

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Membrane Computing Marian Gheorghe, Thomas Hinze, Gheorghe Păun, Grzegorz Rozenberg, Arto Salomaa, 2011-01-18

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