

# Journal of Membrane Computing

# Membrane Computing

**Pierluigi Frisco**



## **Membrane Computing:**

*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

**Membrane Computing** Hendrik Jan Hoogeboom, Gheorghe Paun, Grzegorz Rozenberg, Arto Salomaa, 2006-12-21 This book constitutes the thoroughly refereed extended post proceedings of the 7th International Workshop on Membrane Computing WMC 2006 held in Leiden Netherlands in July 2006 The papers in this volume cover all the main directions of research in membrane computing ranging from theoretical topics in mathematics and computer science to application issues Special attention was paid to the interaction of membrane computing with biology

Membrane Computing Rudolf Freund, 2006-01-11 This book constitutes the thoroughly refereed extended postproceedings of the 6th International Workshop on Membrane Computing WMC 2005 held in Vienna Austria in July 2005 The 20 revised full papers presented together with 5 invited papers went through two rounds of reviewing and improvement The papers in this volume cover all the main directions of research in membrane computing ranging from theoretical topics in mathematics and computer science to application issues especially in biology More specifically these papers present research on topics such as computational power and complexity classes new types of P systems relationships to Petri nets quantum computing and brane calculi determinism vs nondeterminism hierarchies the size of small families algebraic approaches and designing polynomial solutions to NP complete problems through the use of membrane systems

**Membrane Computing** Gheorghe Paun, Grzegorz Rozenberg, Arto Salomaa, Claudio Zandron, 2003-07-01 This book constitutes the thoroughly refereed post proceedings of the International Workshop on Membrane Computing WMC CdeA 2002 held in Curtea de Arges Romania in August 2002 The 29 revised full papers presented were carefully selected during two rounds of reviewing and revision some were especially solicited for inclusion in the book after the workshop Most papers

address membrane systems and membrane computing from the point of view of theoretical computer science some papers solve open problems and present new approaches and others provide mathematical and biological background All in all the book presents the state of the art in membrane computing      **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 functioning of living cells as well as from the way the cells are organized in tissues or higher order structures      **Membrane Computing** Carlos Martín-Vide,2004-01-28 This book constitutes the thoroughly refereed post proceedings of the International Workshop on Membrane Computing WMC 2003 held in Tarragona Spain in July 2003 The 26 revised full papers presented were carefully selected during two rounds of reviewing and improvement All current topics in the emerging area of membrane computing are addressed ranging from issues in mathematics and theoretical computer science to potential applications in biology bioinformatics sorting ranking linguistics and computer graphics several implementations and simulations on computers computer networks and reconfigurable hardware are presented too      Membrane Computing Alberto Leporati,Grzegorz Rozenberg,Arto Salomaa,Claudio Zandron,2017-02-21 This book contains revised selected papers from the 17th International Conference on Membrane Computing CMC 2017 held in Milan Italy in July 2016 The 19 full papers presented in this volume were carefully reviewed and selected from 28 submissions They deal with membrane computing P systems theory an area of computer science aiming to abstract computing ideas and models from the structure and the functioning of living cells as well as from the way the cells are organized in tissues or higher order structures The volume also contains 3 invited talks in full paper length      *Membrane Computing* Marian Gheorghe,Grzegorz Rozenberg,Arto Salomaa,Claudio Zandron,2018-01-04 This book contains revised selected papers from the 18th International Conference on Membrane Computing CMC 2017 held in Bradford UK in July 2017 The 18 full papers presented in this volume were carefully reviewed and selected from 29 submissions They deal with membrane computing P systems theory an area of computer science aiming to abstract computing ideas and models from the structure and the functioning of living cells as well as from the way the cells are organized in tissues or higher order structures The volume also contains 2 invited talks      **Membrane Computing** George Eleftherakis,Petros Kefalas,Gheorghe Paun,Grzegorz Rozenberg,Arto Salomaa,2007-11-25 For anyone needing to keep up to date with all the latest research in the field of membrane computing this book will come as a breath of fresh air It is the extended post proceedings of the 8th International Workshop on Membrane Computing held in June 2007 A total of 27 revised papers are presented All of them have been through two rounds of reviewing Special attention has been paid to the interaction of membrane computing with biology and computer science      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 **Membrane Computing** David Corne, Pierluigi Frisco, Gheorghe Păun, Grzegorz Rozenberg, Arto Salomaa, 2009-01-15 This volume contains a selection of papers presented at the 9th Workshop on Membrane Computing WMC9 which took place in Edinburgh UK during July 28 31 2008 The first three workshops on membrane computing were organized in Curtea de Argeș Romania they took place in August 2000 with the proceedings published in Lecture Notes in Computer Science volume 2235 in August 2001 with a selection of papers published as a special issue of *Fun menta Informaticae* volume 49 numbers 1 3 2002 and in August 2002 with the proceedings published in Lecture Notes in Computer Science volume 2597 The next five workshops were organized in Tarragona Spain in July 2003 in Milan Italy in June 2004 in Vienna Austria in July 2005 in Leiden The Netherlands in July 2006 and in Thessaloniki Greece in June 2007 with the proceedings published as volumes 2933 3365 3850 4361 and 4860 of Lecture Notes in Computer Science *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      *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 for Distributed Control of Robotic Swarms: Emerging Research and Opportunities**

Florea, Andrei George, Buiu, Cătălin, 2017-03-10 Developments in bio inspired computation have impacted multiple fields and created opportunities for new applications In recent years these techniques have been increasingly integrated into robotic systems Membrane Computing for Distributed Control of Robotic Swarms Emerging Research and Opportunities is an innovative reference source for the latest perspectives on biologically inspired computation techniques for robot design and control Highlighting a range of pivotal topics such as software engineering simulation tools and robotic security this book is ideally designed for researchers academics students and practitioners interested in the role of membrane computing in mobile robots      *Membrane Computing* Gheorghe Paun, 2002-08-01 Membrane computing is an unconventional model of computation associated with a new computing paradigm The field of membrane computing was initiated in 1998 by the author of this book it is a branch of natural computing inspired by the structure and functioning of the living cell and devises distributed parallel computing models in the form of membrane systems This book is the first monograph surveying the new field in a systematic and coherent way It presents the central notions and results the main classes of P systems the main results about their computational power and efficiency a complete bibliography and a series of open problems and research topics      *Formal Methods for Computational Systems Biology* Marco Bernardo, Pierpaolo

Degano, Gianluigi Zavattaro, 2008-05-20 This book presents a set of 14 papers accompanying the lectures of leading researchers given at the 8th edition of the International School on Formal Methods for the Design of Computer Communication and Software Systems SFM 2008 held in Bertinoro Italy in June 2008 SFM 2008 was devoted to formal techniques for computational systems biology and covered several aspects of the field including computational models calculi and logics for biological systems and verification and simulation methods The first part of this volume comprises nine papers based on regular lectures the second part of this volume comprises five papers based on talks given by people involved in the Italian BISCA research project on Bio Inspired Systems and Calculi with Applications      **DNA Computing** Alessandra

Carbone, Niles A. Pierce, 2006-07-29 This book constitutes the thoroughly refereed post proceedings of the 11th International Workshop on DNA Based Computers DNA11 held in London ON Canada in June 2005 The 34 revised full papers presented were carefully selected during two rounds of reviewing and improvement from an initial total of 79 submissions The wide ranging topics include in vitro and in vivo biomolecular computation algorithmic self assembly DNA device design DNA coding theory and membrane computing     **Bio-Inspired Computing -- Theories and Applications** Maoguo Gong, Pan Linqiang, Song Tao, Ke Tang, Xingyi Zhang, 2015-12-23 This book constitutes the proceedings of the 10th International Conference on Bio Inspired Computing Theories and Applications BIC TA 2015 held in Hefei China in September 2015 The 63 revised full papers presented were carefully reviewed and selected from 182 submissions The papers deal with the following main topics evolutionary computing neural computing DNA computing and membrane computing     Intelligent Computing Theories De-Shuang Huang, Vitoantonio Bevilacqua, Juan Carlos Figueroa, Prashan Premaratne, 2013-07-20 This book constitutes the refereed conference proceedings of the 9th International Conference on Intelligent Computing ICIC 2013 held in Nanning China in July 2013 The 74 revised full papers presented were carefully reviewed and selected from numerous submissions and are organized in topical sections on neural networks nature inspired computing and optimization cognitive science and computational neuroscience knowledge discovery and data mining evolutionary learning and genetic algorithms machine learning theory and methods natural language processing and computational linguistics fuzzy theory and models soft computing unsupervised and reinforced learning intelligent computing in finance intelligent computing in petri nets intelligent data fusion and information security virtual reality and computer interaction intelligent computing in pattern recognition intelligent computing in image processing intelligent computing in robotics complex systems theory and methods     **Handbook Of Unconventional Computing (In 2 Volumes)** Andrew Adamatzky, 2021-08-18 Did you know that computation can be implemented with cytoskeleton networks chemical reactions liquid marbles plants polymers and dozens of other living and inanimate substrates Do you know what is reversible computing or a DNA microscopy Are you aware that randomness aids computation Would you like to make logical circuits from enzymatic reactions Have you ever tried to implement digital logic with Minecraft Do you know that eroding sandstones can compute too This volume reviews most of the key attempts in coming up with an alternative way of computation In doing so the authors show that we do not need computers to compute and we do not need computation to infer It invites readers to rethink the computer and computing and appeals to computer scientists mathematicians physicists and philosophers The topics are presented in a lively and easily accessible manner and make for ideal supplementary reading across a broad range of subjects Related Link s

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