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Membrane Computing

12th International Conference, CMC 2011
Fontainebleau, France, August 2011
Revised Selected Papers

Membrane Computing: 12th International Conference, CMC 2011, Fontainebleau, France, August 23-26, 2011, Revised Selected Papers, ISSN 1611-3349, Marian Gheorghe, Gheorghe Paun, Grzegorz Rozenberg, Arto Salomaa, Sergey Verlan, Springer, 2012, 3642280234, 9783642280238, 370 pages. This book constitutes the thoroughly refereed post-conference proceedings of the 12th International Conference on Membrane Computing, CMC 2011, held in Fontainebleau, France, in August 2011. The 19 revised selected papers presented were carefully reviewed and selected from 27 papers and 5 posters presented at the conference. The book also contains full papers or extended abstracts of the 5 invited presentations. The papers address all the main directions of research in membrane computing, ranging from theoretical topics in the mathematics and computer science to application issues..

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Membrane computing [electronic resource] 8th international workshop, WMC 2007, Thessaloniki, Greece, June 25-28, 2007 ; revised, selected and invited papers, George Eleftherakis, 2007, Bioinformatics, 452 pages. This book constitutes the thoroughly refereed extended postproceedings of the 8th International Workshop on Membrane Computing, WMC 2007, held in Thessaloniki, Greece, in June

Membrane Computing 9th International Workshop, WMC 2008, Edinburgh, UK, July 28-31, 2008, Revised Selected and Invited Papers, David Corne, Pierluigi Frisco, Gheorghe Păun, Grzegorz Rozenberg, Arto Salomaa, Feb 27, 2009, Computers, 403 pages. This book constitutes the thoroughly refereed extended postproceedings of the 9th International Workshop on Membrane Computing, WMC 2008, held in Edinburgh, UK, in July 2008

Verified Software: Theories, Tools, Experiments 4th International Conference, VSTTE 2012, Philadelphia, PA, USA, January 28-29, 2012 Proceedings, Rajeev Joshi, Peter Möller, Andreas Podelski, Feb 19, 2012, Computers, 326 pages. This volume contains the proceedings of the 4th International Conference on Verified Software: Theories, Tools, and Experiments, VSTTE 2012, held in Philadelphia, PA, USA, in

Brains Inventing Themselves Choice and Engaged Learning, Conrad P. Pritscher, Jan 1, 2012, Active learning, 245 pages. Neuroscience has found that neuroplasticity of brain cells allows brains to invent themselves. Remodeling of brains can be facilitated by schools and universities. What may be

Formal Methods for Computational Systems Biology 8th International School on Formal Methods for the Design of Computer, Communication, and Software Systems, SFM 2008 Bertinoro, Italy, June 2-7, 2008, Marco Bernardo, Pierpaolo Degano, Gianluigi Zavattaro, Jun 27, 2008, Computers, 523 pages. 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

Aspects of Molecular Computing Essays Dedicated to Tom Head on the Occasion of His 70th Birthday, Natasha Jonoska, Feb 20, 2004, Computers, 389 pages. Molecular computing is a rapidly growing subarea of natural computing. On the one hand, molecular computing is concerned with the use of bio-molecules for the purpose of actual

DNA Computing and Molecular Programming 15th International Meeting on DNA Computing, DNA 15, Fayetteville, AR, USA, June 8-11, 2009. Revised Selected Papers, Russell Deaton, Akira Suyama, 2009, Computers, 163 pages. This book constitutes the thoroughly refereed post-conference proceedings of the 15th International Meeting on DNA Computing, DNA15, held in Fayetteville, AR, USA, in June 2009

Proceedings of the Eleventh International Conference on Membrane Computing (CMC11) Friedrich Schiller University Jena, Germany, 24 - 27 August 2010, Marian Gheorghe, 2010, Molecular computers, 468 pages. .

Membrane Computing 6th International Workshop, WMC 2005, Vienna, Austria, July 18-21, 2005, Revised Selected and Invited Papers, Rudolf Freund, Feb 27, 2006, Computers, 370 pages. 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

Membrane Computing An Introduction, Gheorghe Păun, Jan 1, 2002, Computers, 419 pages. Like quantum computing or DNA computing, membrane computing is an unconventional model of computation associated with a new computing paradigm. The field of membrane computing

DNA Computing 14th International Meeting on DNA Computing, DNA 14, Prague, Czech Republic, June 2-9, 2008. Revised Selected Papers, Ashish Goel, Friedrich C. Simmel, Petr Sosik, Nov 23, 2009, Computers, 190 pages. This book constitutes the thoroughly refereed post-conference proceedings of the 14th International Meeting on DNA Computing, DNA 14, held in Prague, Czech Republic, in June

This book constitutes the thoroughly refereed post-conference proceedings of the 12th International Conference on Membrane Computing, CMC 2011, held in Fontainebleau, France, in August 2011. The 19 revised selected papers presented were carefully reviewed and selected from 27 papers and 5 posters presented at the conference. The book also contains full papers or extended abstracts of the 5 invited presentations. The papers address all the main directions of research in membrane computing, ranging from theoretical topics in the mathematics and computer science to application issues.

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Jungheui Chen received his Ph.D. in Chemistry from NYU, under the supervision of Ned Seeman. He has since worked at Berkeley and is now Associate Professor in the Department of Chemistry and Biochemistry at the University of Delaware. He has edited a Springer book: LNCS 2943, Int. Workshop on DNA Based Computers, DNA 9 (2003). He has authored dozens of papers in key journals areas of chemistry, biochemistry, physics, computing and nanoscience

Natascha Jonoska received her Ph.D. in Mathematical Science from SUNY Binghamton and is currently Associate Professor in the Mathematics Dept. at the University of South Florida. She has coedited a number of Springer books: LNCS 2723, Genetic and Evolutionary Computation Conf., GECCO 2003; LNCS 2950, Aspects of Molecular Computing, Essays Dedicated to Tom Head on the Occasion of His 70th Birthday (2004). Natasha has also contributed chapters in various Natural Computing books, and many journal and LNCS articles. Her journal publications cover her interests in both theoretical computer science and natural computing.

Grzegorz Rozenberg is the editor of the Springer Natural Computing series; is one of the series editors of the Springer EATCS Texts in Theoretical Computer Science series; was until this year the editor of the Springer journal Natural Computing; is the editor of the Elsevier Theoretical Computer Science journal Track C (Natural Computing). He has also edited or authored dozens of Springer books over the last 30 years. He has authored hundreds of publications in theoretical computer

science and natural computing, and has been involved in the organization of dozens of conferences in both communities. He has authored and edited dozens of LNCS volumes and monographs, across a range of theoretical computer science fields and also in the area of natural computing. He has also recently edited some relevant Natural Computing series and EATCS series books, such as: *Modelling in Molecular Biology* (2004); *Computation in Living Cells* (2004); *DNA Computing -- New Computing Paradigms* (Reprint 2005). He also coedited LNCS 2950, *Aspects of Molecular Computing, Essays Dedicated to Tom Head on the Occasion of His 70th Birthday* (2004).

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