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Nota di contenuto

Invited Lectures -- Computational Power of Symport/Antiport: History, Advances, and Open Problems -- Structural Operational Semantics of P Systems -- Some Recent Results Concerning Deterministic P Systems -- Membrane Algorithms -- On Evolutionary Lineages of Membrane Systems -- Regular Presentations -- Number of Protons/Bi-stable Catalysts and Membranes in P Systems. Time-Freeness -- Symbol/Membrane Complexity of P Systems with Symport/Antiport Rules -- On P Systems as a Modelling Tool for Biological Systems -- Encoding-Decoding Transitional Systems for Classes of P Systems -- On the Computational Power of the Mate/Bud/Drip Brane Calculus: Interleaving vs. Maximal Parallelism -- A Membrane Computing System Mapped on an Asynchronous, Distributed Computational Environment -- P Systems with Memory -- Algebraic and Coalgebraic Aspects of Membrane Computing -- P Systems and the Modeling of Biochemical Oscillations -- P Systems, Petri Nets, and Program Machines -- On the Power of Dissolution in P Systems with Active Membranes -- A Linear Solution for QSAT with Membrane Creation -- On Symport/Antiport P Systems and Semilinear Sets -- Boolean Circuits and a DNA Algorithm in Membrane Computing -- Towards a Petri Net Semantics for Membrane Systems -- Quantum Sequential P Systems with Unit Rules and Energy Assigned to Membranes -- Editing Distances Between Membrane Structures -- Relational Membrane Systems -- On the Rule Complexity of Universal Tissue P Systems -- Non-cooperative P Systems with Priorities Characterize PsETOL.

Sommario/riassunto

The present volume is based on papers presented at the 6th Workshop on Membrane Computing, WMC6, which took place in Vienna, Austria, in the period July 18-21, 2005. The first three workshops were organized in Curtea de Argeş, 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 Fundamenta Informaticae, volume 49, numbers 1-3, 2002), and in August 2002 (with the proceedings published in Lecture Notes in Computer Science, volume 2597). The fourth and the fifth workshops were organized in Tarragona, Spain, in July 2003, and in Milan, Italy, in June 2004, with the proceedings published as volumes 2933 and 3365, respectively, of Lecture Notes in Computer Science. The pre-proceedings of WMC6 were published by the Institute for Computer Languages of the Vienna University of Technology, and they were available during the workshop. Conforming with tradition, this workshop, too, was a lively scientific event, with many questions and engaged discussions following presentations of papers. The current volume is based on a selection of papers from the pre-proceedings. These papers were significantly modified according to the discussions that took place during the workshop, and all the selected papers were additionally refereed.