



## Unconventional Computation

By Calude, Cristian S. / Costa, Jose F. Gomes da

Condition: New. Publisher/Verlag: Springer, Berlin | 8th International Conference, UC 2009, Ponta Delgada, Portugal, September 7-11, 2009, Proceedings | This book constitutes the refereed proceedings of the 8th International Conference on Unconventional Computation, UC 2009, held in Ponta Delgada, Portugal, in September 2009. The 18 revised full papers presented together with 8 invited talks, 3 tutorials and 5 posters were carefully reviewed and selected from 40 submissions. The papers are devoted to all aspects of unconventional computation ranging from theoretical and experimental aspects to various applications. Typical topics are: natural computing including quantum; cellular, molecular, neural and evolutionary computing; chaos and dynamical system-based computing; and various proposals for computational mechanisms that go beyond the Turing model. | Invited Talks and Tutorials.- Using Physical Experiments as Oracles.- A Tutorial on Analog Computation: Computing Functions over the Reals.- Computational Mechanics: Natural Computation and Self-organization.- Diophantine Equations and Computation.- Structure of Reversible Cellular Automata.- Brain Dynamics Promotes Function.- Awakening the Analogue Computer: Rubel&apos;s Extended Analog Computer Workshop.- Artifice, Interpretation and Nature: Key Categories in Radiology Work.- Developmental Computing.- Evolvable Hardware: From Applications to Implications for the Theory of Computation.- Relativistic Computers and Transfinite Computation.- Regular Contributions.- Turing Completeness Using Three Mobile Membranes.- Resource-Competing...



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