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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Natural Computing -- Ethological response to periodic stimulation in Chara and Brepharisma -- Adaptive path-finding and transport network formation by the amoeba-like organism Physarum -- Aggregate "Calculation" in Economic Phenomena: Distributions and Fluctuations -- Towards Co-evolution of Information, Life and Artificial Life -- Harness the Nature for Computation -- Things Theory of Art Should Learn From Natural Computing -- Study on the use of Evolutionary Techniques for inference in Gene Regulatory Networks -- Reconstruction of Gene Regulatory Networks from Gene Expression Data using Decoupled Recurrent Neural Network Model -- Design and control of synthetic biological systems -- Satellite Symposium on Computational Aesthetics -- Preface--Natural Computing and

Computational Aesthetics -- The Significance of Natural Computing for  
Considering Computational Aesthetics of Nature -- Perceiving the Gap:  
asynchronous coordination of plural algorithms and disconnected  
logical types in ambient space -- Aesthetic Aspects of Technology-  
mediated Self-awareness Experiences.

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Sommario/riassunto

This book contains the joint proceedings of the Winter School of  
Hakodate (WSH) 2011 held in Hakodate, Japan, March 15–16, 2011, and  
the 6th International Workshop on Natural Computing (6th IWNC) held  
in Tokyo, Japan, March 28–30, 2012, organized by the Special Interest  
Group of Natural Computing (SIG-NAC), the Japanese Society for  
Artificial Intelligence (JSAI). This volume compiles refereed  
contributions to various aspects of natural computing, ranging from  
computing with slime mold, artificial chemistry, eco-physics, and  
synthetic biology, to computational aesthetics.

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