

# CO637 – Natural Computation

We study AI techniques inspired by nature (mainly biology)



**Evolutionary Algorithms:** inspired by natural selection

In nature individuals evolve, become more and more adapted to environment

In Computer Science, individuals can be programs or solutions to problems, which evolve to become better and better solutions to the target problem

**Swarm Intelligence:** inspired by social insects (e.g. ants), which solve complex problems without a central coordinator

**Molecular Computing:**

how biological systems (e.g. cells) perform computation

# Natural Computation

**Hongying Meng, Tao Lei, Maozhen  
Li, Kenli Li, Ning Xiong, Lipo Wang**

## Natural Computation:

**An Introduction to Natural Computation** Dana H. Ballard, 1999-01-22 This book provides a comprehensive introduction to the computational material that forms the underpinnings of the currently evolving set of brain models. It is now clear that the brain is unlikely to be understood without recourse to computational theories. The theme of *An Introduction to Natural Computation* is that ideas from diverse areas such as neuroscience, information theory, and optimization theory have recently been extended in ways that make them useful for describing the brain's programs. This book provides a comprehensive introduction to the computational material that forms the underpinnings of the currently evolving set of brain models. It stresses the broad spectrum of learning models ranging from neural network learning through reinforcement learning to genetic learning and situates the various models in their appropriate neural context. To write about models of the brain before the brain is fully understood is a delicate matter. Very detailed models of the neural circuitry risk losing track of the task the brain is trying to solve. At the other extreme, models that represent cognitive constructs can be so abstract that they lose all relationship to neurobiology. *An Introduction to Natural Computation* takes the middle ground and stresses the computational task while staying near the neurobiology. [Unconventional Computation and Natural](#)

[Computation](#) Martyn Amos, Anne Condon, 2016-06-17 This book constitutes the refereed proceedings of the 15th International Conference on Unconventional Computation and Natural Computation (UCNC 2016) held in Manchester, UK, in July 2016. The 15 revised full papers presented together with 5 invited papers were carefully reviewed and selected from 30 submissions. The papers cover a wide range of topics including molecular, cellular, quantum, optical, and chaos computing; cellular automata; neural and evolutionary computation; artificial immune systems; ant algorithms and swarm intelligence; amorphous computing; membrane computing; computational systems biology; and computational neuroscience and synthetic biology. *A Catalogue of Choice and Valuable Books, Both Ancient and Modern*, 1700

**Unconventional Computation and Natural Computation** Daniela Genova, Jarkko Kari, 2023-05-31 This book constitutes the proceedings of the 20th International Conference on Unconventional Computation and Natural Computation (UCNC 2023) held in Jacksonville, FL, USA, in March 13-17, 2023. The UCNC conference series covers fundamental research on computation beyond the standard Turing model, including computational models and methods inspired by nature and the computational properties of natural processes.

*Unconventional Computation and Natural Computation* Da-Jung Cho, Jongmin Kim, 2024-06-17 This book constitutes the proceedings of the 21st International Conference on Unconventional Computation and Natural Computation (UCNC 2024) held in Pohang, South Korea, during June 17-21, 2024. The 19 full papers included in this book were carefully reviewed and selected from 27 submissions. Typical but not exclusive UCNC topics of interest include amorphous computing, cellular automata, chaos and dynamical systems, based computing, cellular chemical, evolutionary, bacterial, molecular, neural, and optical computing, collision-based computing, quantum computing, DNA computing, membrane computing, material computing, and programmable

matter super Turing computation swarm intelligence and other nature inspired algorithms      **Unconventional Computation and Natural Computation** Cristian S. Calude, Michael J. Dinneen, 2015-08-07 This book constitutes the refereed proceedings of the 14th International Conference on Unconventional Computation and Natural Computation UCNC 2015 held in Auckland New Zealand in August September 2015 The 16 revised full papers were carefully reviewed and selected from 38 submissions The papers cover a wide range of topics including among others molecular DNA computing quantum computing optical computing chaos computing physarum computing computation in hyperbolic spaces collision based computing cellular automata neural computation evolutionary computation swarm intelligence nature inspired algorithms artificial immune systems artificial life membrane computing amorphous computing computational systems biology genetic networks protein protein networks transport networks synthetic biology cellular in vivo computing and computations beyond the Turing model and philosophical aspects of computing      **Unconventional Computation and Natural Computation** Irina Kostitsyna, Pekka Orponen, 2021-10-11 This book constitutes the proceedings of the 19th International Conference on Unconventional Computation and Natural Computation UCNC 2021 held in Espoo Finland in October 2021 The 12 full papers presented were carefully reviewed and selected from 19 submissions The UCNC conference series covers fundamental research into computation that goes beyond the standard Turing model including both computational models and methods inspired by nature and the computational characteristics natural processes

*Fundamentals of Natural Computing* Leandro Nunes de Castro, 2006-06-02 Natural computing brings together nature and computing to develop new computational tools for problem solving to synthesize natural patterns and behaviors in computers and to potentially design novel types of computers *Fundamentals of Natural Computing Basic Concepts Algorithms and Applications* presents a wide ranging survey of novel techniques and important applications of nature based computing This book presents theoretical and philosophical discussions pseudocodes for algorithms and computing paradigms that illustrate how computational techniques can be used to solve complex problems simulate nature explain natural phenomena and possibly allow the development of new computing technologies The author features a consistent and approachable textbook style format that includes lucid figures tables real world examples and different types of exercises that complement the concepts while encouraging readers to apply the computational tools in each chapter Building progressively upon core concepts of nature inspired techniques the topics include evolutionary computing neurocomputing swarm intelligence immunocomputing fractal geometry artificial life quantum computing and DNA computing *Fundamentals of Natural Computing* is a self contained introduction and a practical guide to nature based computational approaches that will find numerous applications in a variety of growing fields including engineering computer science biological modeling and bioinformatics      Unconventional Computation and Natural Computation Ian McQuillan, Shinnosuke Seki, 2019-05-27 This book constitutes the proceedings of the 18th International Conference on Unconventional Computation and Natural

Computation UCNC 2019 held in Tokyo Japan in June 2019 The 19 full papers presented were carefully reviewed and selected from 32 submissions The papers cover topics such as hypercomputation chaos and dynamical systems based computing granular fuzzy and rough computing mechanical computing cellular evolutionary molecular neural and quantum computing membrane computing amorphous computing swarm intelligence artificial immune systems physics of computation chemical computation evolving hardware the computational nature of self assembly developmental processes bacterial communication and brain processes

**Unconventional Computation and Natural Computation** Giancarlo Mauri,Alberto Dennunzio,Luca Manzoni,Antonio E. Porreca,2013-06-03 This book constitutes the refereed proceedings of the 12th International Conference on Unconventional Computation and Natural Computation UCNC 2013 held in Milan Italy in July 2013 The 30 papers 28 full papers 8 poster papers and 2 invited papers were carefully reviewed and selected from 46 submissions The topics of the volume include quantum cellular molecular neural DNA membrane and evolutionary computing cellular automata computation based on chaos and dynamical systems massive parallel computation collective intelligence computation based on physical principles such as relativistic optical spatial collision based computing amorphous computing physarum computing hypercomputation fuzzy and rough computing swarm intelligence artificial immune systems physics of computation chemical computation evolving hardware the computational nature of self assembly developmental processes bacterial communication and brain processes

**Advances in Natural Computation, Fuzzy Systems and Knowledge Discovery** Yong Liu,Lipo Wang,Liang Zhao,Zhengtao Yu,2019-11-06 This book discusses the recent advances in natural computation fuzzy systems and knowledge discovery Presenting selected peer reviewed papers from the 15th International Conference on Natural Computation Fuzzy Systems and Knowledge Discovery ICNC FSKD 2019 held in Kunming China from 20 to 22 July 2019 it is a useful resource for researchers including professors and graduate students as well as R D staff in industry

**Unconventional Computation and Natural Computation** Matthew J. Patitz,Mike Stannett,2017-05-26 This book constitutes the proceedings of the 16th International Conference on Unconventional Computation and Natural Computation UCNC 2017 held in Fayetteville AR USA in June 2017 The 14 papers presented in this volume were carefully reviewed and selected from 21 submissions The UCNC series of international conferences is genuinely interdisciplinary and it covers theory as well as experiments and applications It is concerned with various proposals for computation that go beyond the Turing model human designed computation inspired by nature and with the computational nature of processes taking place in nature Typical but not exclusive topics are hypercomputation chaos and dynamical systems based computing granular fuzzy and rough computing mechanical computing cellular evolutionary molecular neural and quantum computing membrane computing amorphous computing swarm intelligence artificial immune systems physics of computation chemical computation evolving hardware the computational nature of self assembly developmental processes bacterial communication and brain processes

Advances in Natural Computation Licheng Jiao,Lipo Wang,Xinbo Gao,Jing Liu,Feng Wu,2006-09-20

This is volume II of the proceedings of the Second International Conference on Natural Computation ICNC 2006 After a demanding review process 168 carefully revised full papers and 86 revised short papers were selected from 1915 submissions for presentation in two volumes The 124 papers in the second volume are organized in topical sections on additional topics in natural computation natural computation techniques applications hardware and cross disciplinary topics

**Advances in Natural Computation, Fuzzy Systems and Knowledge Discovery** Yong Liu,Lipo Wang,Liang Zhao,Zhengtao Yu,2019-11-06 This book discusses the recent advances in natural computation fuzzy systems and knowledge discovery Presenting selected peer reviewed papers from the 15th International Conference on Natural Computation Fuzzy Systems and Knowledge Discovery ICNC FSKD 2019 held in Kunming China from 20 to 22 July 2019 it is a useful resource for researchers including professors and graduate students as well as R D staff in industry

**Unconventional Computation and Natural Computation** Susan Stepney,Sergey Verlan,2018-06-14 This book constitutes the proceedings of the 17th International Conference on Unconventional Computation and Natural Computation UCNC 2018 held in Fontainebleau France in June 2018 The 15 full papers presented were carefully reviewed and selected from 22 submissions The paper cover topics such as hypercomputation chaos and dynamical systems based computing granular fuzzy and rough computing mechanical computing cellular evolutionary molecular neural and quantum computing membrane computing amorphous computing swarm intelligence artificial immune systems physics of computation chemical computation evolving hardware the computational nature of self assembly developmental processes bacterial communication and brain processes

**Advances in Natural Computation, Fuzzy Systems and Knowledge Discovery** Hongying Meng,Tao Lei,Maozhen Li,Kenli Li,Ning Xiong,Lipo Wang,2021-06-26 This book consists of papers on the recent progresses in the state of the art in natural computation fuzzy systems and knowledge discovery The book is useful for researchers including professors graduate students as well as R D staff in the industry with a general interest in natural computation fuzzy systems and knowledge discovery The work printed in this book was presented at the 2020 16th International Conference on Natural Computation Fuzzy Systems and Knowledge Discovery ICNC FSKD 2020 held in Xi an China from 19 to 21 December 2020 All papers were rigorously peer reviewed by experts in the areas

**Natural Computation** Whitman Richards,1988 Designed for the MIT course Natural Computation this extensive book of readings combines mathematics artificial intelligence computer science experimental psychology and neurophysiology in studying perception Mathematics is emphasized for making perceptual inferences and the spectrum of mathematical techniques used is very broad While the more than thirty readings focus primarily on vision they also encompass the study of sound perception and the interpretation and application of forces including movement Each article is a self contained example of how a perceptual problem may be tackled and solved For example what makes wood look like wood not like stone sand or grass How can we represent three dimensional shapes when the same shape is rarely seen in exactly the same way Each of the five sections is preceded by an introduction and the book

concludes with problem sets Whitman A Richards is Professor in the Brain and Cognitive Science Department at MIT A  
Bradford Book     **Advances in Natural Computation** Licheng Jiao,Lipo Wang,Xinbo Gao,Jing Liu,Feng Wu,2006-09-28

This is volume II of the proceedings of the Second International Conference on Natural Computation ICNC 2006 After a  
demanding review process 168 carefully revised full papers and 86 revised short papers were selected from 1915  
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additional topics in natural computation natural computation techniques applications hardware and cross disciplinary topics

Natural Computing for Simulation-Based Optimization and Beyond Silja Meyer-Nieberg,Nadiia Leopold,Tobias  
Uhlig,2019-07-26 This SpringerBrief bridges the gap between the areas of simulation studies on the one hand and  
optimization with natural computing on the other Since natural computing methods have been applied with great success in  
several application areas a review concerning potential benefits and pitfalls for simulation studies is merited The brief  
presents such an overview and combines it with an introduction to natural computing and selected major approaches as well  
as with a concise treatment of general simulation based optimization As such it is the first review which covers both the  
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