

Access PDF Cuttlefish Algorithm
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Cuttlefish Algorithm A Novel Bio Inspired Optimization

This book constitutes the

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**refereed proceedings of the
5th European Conference on
Evolutionary Computation,
Machine Learning and Data
Mining in Bioinformatics,
EvoBIO 2007, held in Valencia,
Spain, April 2007. Coverage**

Acces PDF Cuttlefish Algorithm
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brings together experts in computer science with experts in bioinformatics and the biological sciences. It presents contributions on fundamental and theoretical issues along with papers

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**dealing with different
applications areas.**

**Nature-Inspired Optimization
Algorithms provides a
systematic introduction to all
major nature-inspired
algorithms for optimization.**

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**The book's unified approach,
balancing algorithm
introduction, theoretical
background and practical
implementation, complements
extensive literature with well-
chosen case studies to**

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illustrate how these algorithms work. Topics include particle swarm optimization, ant and bee algorithms, simulated annealing, cuckoo search, firefly algorithm, bat algorithm, flower algorithm, harmony

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**search, algorithm analysis,
constraint handling, hybrid
methods, parameter tuning
and control, as well as multi-
objective optimization. This
book can serve as an
introductory book for**

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**graduates, doctoral students
and lecturers in computer
science, engineering and
natural sciences. It can also
serve a source of inspiration
for new applications.
Researchers and engineers as**

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well as experienced experts will also find it a handy reference. Discusses and summarizes the latest developments in nature-inspired algorithms with comprehensive, timely

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**literature Provides a
theoretical understanding as
well as practical
implementation hints Provides
a step-by-step introduction to
each algorithm
From experts in engineering**

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**and biology, this is the first
book to integrate sensor and
actuator technology with
bioinspired design.**

**HANDBOOK OF INTELLIGENT
COMPUTING AND
OPTIMIZATION FOR**

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**SUSTAINABLE
DEVELOPMENT** This book
provides a comprehensive
overview of the latest
breakthroughs and recent
progress in sustainable
intelligent computing

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**technologies, applications,
and optimization techniques
across various industries.
Optimization has received
enormous attention along with
the rapidly increasing use of
communication technology**

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and the development of user-friendly software and artificial intelligence. In almost all human activities, there is a desire to deliver the highest possible results with the least amount of effort. Moreover,

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optimization is a very well-known area with a vast number of applications, from route finding problems to medical treatment, construction, finance, accounting, engineering, and

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maintenance schedules in plants. As far as optimization of real-world problems is concerned, understanding the nature of the problem and grouping it in a proper class may help the designer employ

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proper techniques which can solve the problem efficiently. Many intelligent optimization techniques can find optimal solutions without the use of objective function and are less prone to local conditions. The

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41 chapters comprising the Handbook of Intelligent Computing and Optimization for Sustainable Development by subject specialists, represent diverse disciplines such as mathematics and

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**computer science, electrical
and electronics engineering,
neuroscience and cognitive
sciences, medicine, and social
sciences, and provide the
reader with an integrated
understanding of the**

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importance that intelligent computing has in the sustainable development of current societies. It discusses the emerging research exploring the theoretical and practical aspects of

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**successfully implementing
new and innovative intelligent
techniques in a variety of
sectors, including IoT,
manufacturing, optimization,
and healthcare. Audience It is
a pivotal reference source for**

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IT specialists, industry professionals, managers, executives, researchers, scientists, and engineers seeking current research in emerging perspectives in the field of artificial intelligence in

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**the areas of Internet of Things,
renewable energy,
optimization, and smart cities.**

**Liquid Life: On Non-Linear
Materiality**

**5th European Conference,
EvoBIO 2007, Valencia, Spain,**

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**April 11-13, 2007, Proceedings
Power System Fault Diagnosis
Ecology and Fisheries
Introduction to Computational
Science
Advances in Bioinformatics,
Multimedia, and Electronics**

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Circuits and Signals
Proceedings of ICICC 2019,
Volume 1

This book gravitates on the prominent theories and recent developments of swarm intelligence methods, and their application in both synthetic and real-

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world optimization problems. The special interest will be placed in those algorithmic variants where biological processes observed in nature have underpinned the core operators underlying their search mechanisms. In other words, the book centers its attention on swarm intelligence and

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nature-inspired methods for efficient optimization and problem solving. The content of this book unleashes a great opportunity for researchers, lecturers and practitioners interested in swarm intelligence, optimization problems and artificial intelligence.

Computational science is an exciting

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new field at the intersection of the sciences, computer science, and mathematics because much scientific investigation now involves computing as well as theory and experiment. This textbook provides students with a versatile and accessible introduction to the subject. It assumes only a

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background in high school algebra, enables instructors to follow tailored pathways through the material, and is the only textbook of its kind designed specifically for an introductory course in the computational science and engineering curriculum. While the text itself is generic, an accompanying

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website offers tutorials and files in a variety of software packages. This fully updated and expanded edition features two new chapters on agent-based simulations and modeling with matrices, ten new project modules, and an additional module on diffusion. Besides increased treatment of high-

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performance computing and its applications, the book also includes additional quick review questions with answers, exercises, and individual and team projects. The only introductory textbook of its kind—now fully updated and expanded Features two new chapters on agent-based simulations

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and modeling with matrices Increased coverage of high-performance computing and its applications Includes additional modules, review questions, exercises, and projects An online instructor's manual with exercise answers, selected project solutions, and a test bank and solutions (available

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only to professors) An online illustration package is available to professors
This book provides an in-depth analysis of the current evolutionary machine learning techniques. Discussing the most highly regarded methods for classification, clustering, regression, and prediction, it includes techniques

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such as support vector machines,
extreme learning machines,
evolutionary feature selection, artificial
neural networks including feed-forward
neural networks, multi-layer perceptron,
probabilistic neural networks, self-
optimizing neural networks, radial basis
function networks, recurrent neural

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networks, spiking neural networks, neuro-fuzzy networks, modular neural networks, physical neural networks, and deep neural networks. The book provides essential definitions, literature reviews, and the training algorithms for machine learning using classical and modern nature-inspired techniques. It

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also investigates the pros and cons of classical training algorithms. It features a range of proven and recent nature-inspired algorithms used to train different types of artificial neural networks, including genetic algorithm, ant colony optimization, particle swarm optimization, grey wolf optimizer, whale

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optimization algorithm, ant lion optimizer, moth flame algorithm, dragonfly algorithm, salp swarm algorithm, multi-verse optimizer, and sine cosine algorithm. The book also covers applications of the improved artificial neural networks to solve classification, clustering, prediction and

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regression problems in diverse fields. This book brings together the current state of-the-art research in Self Organizing Migrating Algorithm (SOMA) as a novel population-based evolutionary algorithm, modeled on the predator-prey relationship, by its leading practitioners. As the first ever

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book on SOMA, this book is geared towards graduate students, academics and researchers, who are looking for a good optimization algorithm for their applications. This book presents the methodology of SOMA, covering both the real and discrete domains, and its various implementations in different

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research areas. The easy-to-follow and implement methodology used in the book will make it easier for a reader to implement, modify and utilize SOMA. Self-Organizing Migrating Algorithm Advances in Deep Learning-based Technological Applications Advanced Technologies for Solar

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Photovoltaics Energy Systems

Applied Optimization and Swarm
Intelligence

Bioinspired Actuators and Sensors

Select Proceedings of ITsFEW 2018

Tropical Pinnipeds

The Extended Specimen highlights
the research potential for

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ornithological specimens, and is meant to encourage ornithologists poised to initiate a renaissance in collections-based ornithological research. Contributors illustrate how collections and specimens are used in novel ways by adopting emerging new technologies and

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analytical techniques. Case studies use museum specimens and emerging and non-traditional types of specimens, which are developing new methods for making biological collections more accessible and "usable" for ornithological researchers.

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Published in collaboration with and on behalf of The American Ornithological Society, this volume in the highly-regarded Studies in Avian Biology series documents the power of ornithological collections to address key research questions of global

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importance.

This book comprises select proceedings of the International Conference on Emerging Technologies for Farming – Energy & Environment – Water (ITsFEW 2018). The contents are divided into three parts viz., (i)

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Developments in Farming, (ii) Energy and Environment, and (iii) Water Conservation and Management. The book aims to provide timely solutions, using innovative and emerging technologies, to the global challenges in agriculture, energy,

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environment, and water management. Some of the topics covered in this book include remote sensing for smart farming, GIS, irrigation engineering, soil science and agronomy, smart grids, renewable energy, energy management systems, energy

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storage technologies, biological water treatment, industrial waste water treatment, watershed management and sustainability. Given the wide range of topics discussed, the book will be very useful for students, researchers and practitioners interested in

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agricultural and environmental engineering.

Network on Chip (NoC) addresses the communication requirement of different nodes on System on Chip. The bio-inspired algorithms improve the bandwidth utilization, maximize the throughput and

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reduce the end-to-end latency and inter-flit arrival time. This book exclusively presents in-depth information regarding bio-inspired algorithms solving real world problems focussing on fault-tolerant algorithms inspired by the biological brain and implemented

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on NoC. It further documents the bio-inspired algorithms in general and more specifically, in the design of NoC. It gives an exhaustive review and analysis of the NoC architectures developed during the last decade according to various parameters. Key Features: Covers

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bio-inspired solutions pertaining to
Network-on-Chip (NoC) design
solving real world examples
Includes bio-inspired NoC fault-
tolerant algorithms with detail
coding examples Lists fault-
tolerant algorithms with detailed
examples Reviews basic concepts

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of NoC Discusses NoC
architectures developed-to-date
After a bizarre scheme on the part
of a ruthless computer billionaire
and a wacky U.S. president to
radically alter the world through
sentient nanotechnology goes
awry thanks to an autistic boy,

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mysterious giant humanoids from another quantum universe arrive on Earth with plans to tidy up humankind's mess. Reprint. 10,000 first printing.

Peptides

Compelling Evidence for Creation
and the Flood

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Cephalopod Behaviour
Evolutionary Computation,
Machine Learning and Data Mining
in Bioinformatics
Progress in Artificial Intelligence
Bio-inspired Computing Models
And Algorithms
Machine Learning Paradigms

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As there are no proper medical tests available to predict certain diseases such as Alzheimer's and Parkinson's at an early stage, there is a need to further study and consider the potential uses of bio- and nature-inspired algorithms and future technologies such as machine learning in correlation to disease detection and

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treatment. Bio-Inspired Algorithms and Devices for Treatment of Cognitive Diseases Using Future Technologies considers new tools for early detection of cognitive brain diseases using devices and algorithms whose basic concept is taken from nature and discusses design, analysis, and application of various

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bionics or bio-inspired algorithms. Covering topics such as depression and cognitive science, this publication is an ideal resource for researchers, academicians, industry professionals, psychologists, psychiatrists, nurses, engineers, instructors, and students. This book presents a detailed description,

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analysis, comparison of the latest research and developments in photovoltaic energy. Discussing everything from semiconductors to system integration, and applying various advanced technologies to stand alone and electric utility interfaced in normal and abnormal operating conditions of PV systems, this book

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provides a thorough introduction to the topic. This book brings together research from around the world, covering the use of technologies such as embedded systems, the Internet of things and blockchain technologies for PV systems for different applications including controllers, solar trackers and cooling systems. The book is

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of interest to electronic and mechanical engineers, researchers and students in the field of photovoltaics.

This book constitutes the refereed proceedings of the 19th EPIA Conference on Artificial Intelligence, EPIA 2019, held in Funchal, Madeira, Portugal, in September 2019. The 119 revised full

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papers and 6 short papers presented were carefully reviewed and selected from a total of 252 submissions. The papers are organized in 18 tracks devoted to the following topics: AIEd - Artificial Intelligence in Education, AI4G - Artificial Intelligence for Games, AIoTA - Artificial Intelligence and IoT in Agriculture, AIL -

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Artificial Intelligence and Law, AIM -
Artificial Intelligence in Medicine,
AICPDES - Artificial Intelligence in Cyber-
Physical and Distributed Embedded
Systems, AIPES - Artificial Intelligence in
Power and Energy Systems, AITS -
Artificial Intelligence in Transportation
Systems, ALEA - Artificial Life and

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Evolutionary Algorithms, AmlA - Ambient Intelligence and Affective Environments, BAAI - Business Applications of Artificial Intelligence, GAI- General AI, IROBOT - Intelligent Robotics, KDBI - Knowledge Discovery and Business Intelligence, KRR - Knowledge Representation and Reasoning, MASTA - Multi-Agent

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Systems: Theory and Applications, SSM -
Social Simulation and Modelling, TeMA -
Text Mining and Applications.

Thermodynamique de l'évolution - Un
essai de thermo-bio-sociologie - translated
into English with the help of Steve
Ridgway À PROPOS DE L'AUTEUR
François Roddier est né en 1936.

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Astrophysicien, il est connu de tous les astronomes pour ses travaux qui ont permis de compenser l'effet des turbulences atmosphériques lors de l'observation des astres. Après avoir créé le département d'astrophysique de l'université de Nice, c'est aux États-Unis, au National Optical Astronomy

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Observatory (Tucson, Arizona) puis à l'Institute for Astrophysics de l'Université d'Hawaii, qu'il participe au développement des systèmes d'optique adaptative qui équipent désormais les grands outils d'observation comme le télescope CFHT (Canada-France-Hawaii), ou le télescope japonais Subaru

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tous deux situés à Hawaii, et les télescope de l'ESO (European Southern Observatory), l'observatoire européen austral situé au Chili. Savant toujours curieux, il s'intéresse aux aspects thermodynamiques de l'évolution.

Methodology and Implementation
Handbook of Intelligent Computing and

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Optimization for Sustainable Development
Proceedings of ICICC 2020, Volume 1
A Metaheuristic Approach
Advances in Chitin/Chitosan
Characterization and Applications
An IoT Framework for Heart Disease
Prediction Based on MDCNN Classifier
Evolutionary Machine Learning

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Bio-inspired computing (BIC) focuses on the designs and developments of computer algorithms and models based on biological mechanisms and living phenomena. It is now a major subfield of natural computation that leverages

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on the recent advances in computer science, biology and mathematics. The ideas provide abundant inspiration to construct high-performance computing models and intelligent algorithms, thus enabling powerful tools to solve real-life problems. Written by world-renowned

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researchers, this compendium covers the most influential topics on BIC, where the newly-obtained algorithms, developments and results are introduced and elaborated. The potential and valuable directions for further research are addressed as well.

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Power System Fault Diagnosis: A Wide Area Measurement Based Intelligent Approach is a comprehensive overview of the growing interests in efficient diagnosis of power system faults to reduce outage duration and revenue losses by expediting the restoration

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process. This book illustrates intelligent fault diagnosis schemes for power system networks, at both transmission and distribution levels, using data acquired from phasor measurement units. It presents the power grid modeling, fault modeling, feature

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extraction processes, and various fault diagnosis techniques, including artificial intelligence techniques, in steps. The book also incorporates uncertainty associated with line parameters, fault information (resistance and inception angle), load

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demand, renewable energy generation, and measurement noises. Provides step-by-step modeling of power system networks (distribution and transmission) and faults in MATLAB/SIMULINK and real-time digital simulator (RTDS) platforms

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Presents feature extraction processes using advanced signal processing techniques (discrete wavelet and Stockwell transforms) and an easy-to-understand optimal feature selection method Illustrates comprehensive results in the graphical and tabular

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formats that can be easily reproduced by beginners Highlights various utility practices for fault location in transmission networks, distribution systems, and underground cables. Pinnipeds are a fascinating group of marine mammals that play a crucial

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role as apex predators and sentinels of the functioning and health of marine ecosystems. They are found in the most extreme environments from the Polar regions to the tropics. Pinnipeds are comprised of about 34 species, and of those at least 25% live permanently in

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tropical zones. This book reviews and updates current research on the biology, marine ecology, bio-monitoring, and conservation of tropical pinniped populations, including their behavior, anthropogenic stressors, and health. It

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also looks at challenges to be faced for the conservation of tropical pinnipeds, many of which are threatened species. A fully updated overview of the causation, function, development and evolution of cephalopod behaviour, richly illustrated in full colour.

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Algorithms, Theory and Applications
An Intelligent Search Algorithmic
Perspective
Emerging Frontiers in Collections-
Based Ornithological Research
Proceedings of GUCON 2019
A Wide Area Measurement Based

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Intelligent Approach

Bio-Inspired Algorithms and Devices
for Treatment of Cognitive Diseases
Using Future Technologies

Essay

Many researchers have focused on the
diagnosis of heart disease, yet the

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accuracy of the diagnosis results is low. To address this issue, an IoT framework is proposed to evaluate heart disease more accurately using a Modified Deep Convolutional Neural Network (MDCNN). The smartwatch and heart monitor device

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that is attached to the patient monitors the blood pressure and electrocardiogram (ECG). The MDCNN is utilized for classifying the received sensor data into normal and abnormal.

At the dawn of the 4th Industrial

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Revolution, the field of Deep Learning (a sub-field of Artificial Intelligence and Machine Learning) is growing continuously and rapidly, developing both theoretically and towards applications in increasingly many and diverse other disciplines.

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The book at hand aims at exposing its reader to some of the most significant recent advances in deep learning-based technological applications and consists of an editorial note and an additional fifteen (15) chapters. All chapters in the book were invited

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from authors who work in the corresponding chapter theme and are recognized for their significant research contributions. In more detail, the chapters in the book are organized into six parts, namely (1) Deep Learning in Sensing, (2) Deep

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Learning in Social Media and IOT,
(3) Deep Learning in the Medical
Field, (4) Deep Learning in Systems
Control, (5) Deep Learning in
Feature Vector Processing, and (6)
Evaluation of Algorithm
Performance. This research book is

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directed towards professors, researchers, scientists, engineers and students in computer science-related disciplines. It is also directed towards readers who come from other disciplines and are interested in becoming versed in some of the most

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recent deep learning-based technological applications. An extensive list of bibliographic references at the end of each chapter guides the readers to probe deeper into their application areas of interest. This revised and expanded new

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edition is a meticulously documented resource dealing with the age-old creation/evolution controversy. The author, who received a PhD from M.I.T., carefully explains and illustrates scientific evidence from biology, astronomy, and the physical

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and earth sciences that relates to origins and the flood. The hydroplate theory, developed after more than 30 years of study by Dr. Walt Brown, explains, with overwhelming scientific evidence, earth's defining geological event - a worldwide flood. This book

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includes an index, extensive endnotes and references, technical notes, answers to 36 frequently asked questions on related topics, and hundreds of illustrations, most in full color.

A broad spectrum of modern

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Information Technology (IT) tools, techniques, main developments and still open challenges is presented. Emphasis is on new research directions in various fields of science and technology that are related to data analysis, data mining, knowledge

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discovery, information retrieval, clustering and classification, decision making and decision support, control, computational mathematics and physics, to name a few.

Applications in many relevant fields are presented, notably in

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telecommunication, social networks, recommender systems, fault detection, robotics, image analysis and recognition, electronics, etc. The methods used by the authors range from high level formal mathematical tools and techniques, through

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algorithmic and computational tools,
to modern metaheuristics.

Bio-Inspired Fault-Tolerant

Algorithms for Network-on-Chip

Cephalopods

Controller Tuning Optimization

Methods for Multi-Constraints and

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Optimization
Nonlinear Systems

11th International Symposium, CSS
2019, Guangzhou, China, December
1 – 3, 2019, Proceedings, Part I
Information Technology and
Computational Physics
ROBOT 2017: Third Iberian Robotics

Acces PDF Cuttlefish Algorithm A Novel Bio Inspired Optimization Conference

Information Technology, Systems
Research, and Computational Physics

Squid, cuttlefish and octopuses, which form the marine mollusc group the cephalopods, are of great and increasing interest to marine biologists, physiologists,

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ecologists, environmental biologists and fisheries scientists. Cephalopods: ecology and fisheries is a thorough review of this most important animal group. The first introductory section of the book provides coverage of cephalopod form and function, origin and evolution, Nautilus, and biodiversity and zoogeography. The

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following section covers life cycles, growth, physiological ecology, reproductive strategies and early life histories. There follows a section on ecology, which provides details of slope and shelf species, oceanic and deep sea species, population ecology, trophic ecology and cephalopods as prey. The final

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section of the book deals with fisheries and ecological interactions, with chapters on fishing methods and scientific sampling, fisheries resources, fisheries oceanography and assessment and management methods. This scientifically comprehensive and beautifully illustrated book is essential reading for marine biologists, zoologists,

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ecologists and fisheries managers. All libraries in universities and research establishments where biological sciences and fisheries are studied and taught should have multiple copies of this landmark publication on their shelves.

This self-contained book, written by active researchers, presents up-to-date

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information on smart maintenance strategies for human–robot interaction (HRI) and the associated applications of novel search algorithms in a single volume, eliminating the need to consult scattered resources. Unlike other books, it addresses maintaining a smart HRI from three dimensions, namely, hardware, cyberware,

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and hybrid-asset management, covering problems encountered in each through a wide variety of representative examples and elaborated illustrations. Further, the diverse mathematical models and intelligent systems constructions make the book highly practical. It enables readers interested in maintenance, robotics, and

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intelligent systems but perplexed by
myriads of interrelated issues to grasp
basic methodologies. At the same time, the
referenced literature can be used as a
roadmap for conducting deeper researches.
The two volumes LNCS 11982 and 11983
constitute the proceedings of the 11th
International Symposium on Cyberspace

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Safety and Security, CSS 2019, held in Guangzhou, China, in December 2019. The 61 full papers and 40 short papers presented were carefully reviewed and selected from 235 submissions. The papers cover a broad range of topics in the field of cyberspace safety and security, such as authentication, access control, availability,

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integrity, privacy, confidentiality, dependability and sustainability issues of cyberspace. They are organized in the following topical sections: network security; system security; information security; privacy preservation; machine learning and security; cyberspace safety; big data and security; and cloud and

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security;

This book includes high-quality research papers presented at the Second International Conference on Innovative Computing and Communication (ICICC 2019), which is held at the VŠB - Technical University of Ostrava, Czech Republic, on 21–22 March 2019.

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Introducing the innovative works of scientists, professors, research scholars, students, and industrial experts in the fields of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real-time

Acces PDF Cuttlefish Algorithm A Novel Bio Inspired Optimization applications.

Emerging Technologies for Agriculture
and Environment

Smart Maintenance for Human–Robot
Interaction

The Extended Specimen

Modeling and Simulation for the Sciences,
Second Edition

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Chemistry and Biology

Nature-Inspired Optimization Algorithms

Volume 1

This book covers controller tuning techniques from conventional to new optimization methods for diverse control engineering applications.

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Classical controller tuning approaches are presented with real-world challenges faced in control engineering. Current developments in applying optimization techniques to controller tuning are explained. Case studies of optimization

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algorithms applied to controller tuning dealing with nonlinearities and limitations like the inverted pendulum and the automatic voltage regulator are presented with performance comparisons. Students and researchers in engineering and

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*optimization interested in
optimization methods for controller
tuning will utilize this book to apply
optimization algorithms to
controller tuning, to choose the most
suitable optimization algorithm for a
specific application, and to develop*

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*new optimization techniques for
controller tuning.*

*Peptides play a decisive role in
many physiological processes,
whether as neurotransmitters,
hormones or antibiotics. The rapid
developments in peptide research*

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over the past few decades make it almost impossible for newcomers to gain an overview. This means an easily comprehensible yet concise introduction is vital. This unique work covers all the important aspects of this wide-ranging field in

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one handy volume. On the basis of the fundamental chemical and structural properties of peptides, this reference runs the gamut from analysis, the occurrence and biological importance of peptides, via chemical, biochemical and

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genetic methods of peptide synthesis, right up to peptide libraries, peptide design and their role in drug research. Yet this book offers much more than a mere overview of the latest level of research. An encyclopedic appendix

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with valuable data on more than 500 biological relevant peptides and proteins, a comprehensive register and details of further literature references make this the ideal reference for all questions regarding peptide research. For newcomers

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and specialists alike. On the basis of the fundamental chemical and structural properties of peptides, this reference runs the gamut from analysis, the occurrence and biological importance of peptides. These volumes of "Advances in

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Intelligent Systems and Computing"
highlight papers presented at the
"Third Iberian Robotics Conference
(ROBOT 2017)". Held from 22 to 24
November 2017 in Seville, Spain,
the conference is a part of a series
of conferences co-organized by

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SEIDROB (Spanish Society for Research and Development in Robotics) and SPR (Portuguese Society for Robotics). The conference is focused on Robotics scientific and technological activities in the Iberian Peninsula,

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although open to research and delegates from other countries.

Thus, it has more than 500 authors from 21 countries. The volumes present scientific advances but also robotic industrial applications, looking to promote new

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collaborations between industry and academia.

Nature-inspired computation and swarm intelligence have become popular and effective tools for solving problems in optimization, computational intelligence, soft

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computing and data science.

*Recently, the literature in the field
has expanded rapidly, with new
algorithms and applications
emerging. Nature-Inspired
Computation and Swarm
Intelligence: Algorithms, Theory*

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and Applications is a timely reference giving a comprehensive review of relevant state-of-the-art developments in algorithms, theory and applications of nature-inspired algorithms and swarm intelligence. It reviews and documents the new

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developments, focusing on nature-inspired algorithms and their theoretical analysis, as well as providing a guide to their implementation. The book includes case studies of diverse real-world applications, balancing explanation

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of the theory with practical implementation. Nature-Inspired Computation and Swarm Intelligence: Algorithms, Theory and Applications is suitable for researchers and graduate students in computer science, engineering,

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data science, and management science, who want a comprehensive review of algorithms, theory and implementation within the fields of nature inspired computation and swarm intelligence. Introduces nature-inspired algorithms and their

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fundamentals, including: particle swarm optimization, bat algorithm, cuckoo search, firefly algorithm, flower pollination algorithm, differential evolution and genetic algorithms as well as multi-objective optimization algorithms and others

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Provides a theoretical foundation and analyses of algorithms, including: statistical theory and Markov chain theory on the convergence and stability of algorithms, dynamical system theory, benchmarking of

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*optimization, no-free-lunch
theorems, and a generalized
mathematical framework Includes a
diversity of case studies of real-
world applications: feature
selection, clustering and
classification, tuning of restricted*

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*Boltzmann machines, travelling
salesman problem, classification of
white blood cells, music generation
by artificial intelligence, swarm
robots, neural networks,
engineering designs and others*

Handbook of Face Recognition

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Optimization
Algorithms and Applications

*International Conference on
Innovative Computing and
Communications*

*The Thermodynamics of evolution
The Animal That Therefore I Am*

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Cyberspace Safety and Security

*The translated, complete text of
Derrida's 1997 ten-hour address,
"The Autobiographical Animal,"
focusing on the industrialized
treatment of animals. The Animal
That Therefore I Am is at once an*

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affectionate look back over the multiple roles played by animals in Derrida's work and a profound philosophical investigation and critique of the relegation of animal life that takes place as a result of the distinction?dating

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*from Descartes?between man as
thinking animal and every other
living species. That starts with
the very fact of the line of
separation drawn between the
human and the millions of other
species that are reduced to a*

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single “the animal.” Derrida finds that distinction, or versions of it, surfacing in thinkers as far apart as Descartes, Kant, Heidegger, Lacan, and Levinas, and he dedicates extended analyses to the question in the work of each

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of them. The book's autobiographical theme intersects with its philosophical analysis through the figures of looking and nakedness, staged in terms of Derrida's experience when his cat follows him into the

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bathroom in the morning. In a classic deconstructive reversal, Derrida asks what this animal sees and thinks when it sees this naked man. Yet the experiences of nakedness and shame also lead all the way back into the

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mythologies of “man’s dominion over the beasts” and trace a history of how man has systematically displaced onto the animal his own failings or bêtises. The Animal That Therefore I Am is at times a militant plea and

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indictment regarding, especially, the modern industrialized treatment of animals. However, Derrida cannot subscribe to a simplistic version of animal rights that fails to follow through, in all its implications, the questions

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and definitions of “life” to which he returned in much of his later work.

Bio-Inspired Algorithms and Devices for Treatment of Cognitive Diseases Using Future Technologies

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This highly anticipated new edition provides a comprehensive account of face recognition research and technology, spanning the full range of topics needed for designing operational face recognition systems. After a

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*thorough introductory chapter,
each of the following chapters
focus on a specific topic,
reviewing background
information, up-to-date
techniques, and recent results, as
well as offering challenges and*

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future directions. Features: fully updated, revised and expanded, covering the entire spectrum of concepts, methods, and algorithms for automated face detection and recognition systems; provides

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comprehensive coverage of face detection, tracking, alignment, feature extraction, and recognition technologies, and issues in evaluation, systems, security, and applications; contains numerous step-by-step

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algorithms; describes a broad range of applications; presents contributions from an international selection of experts; integrates numerous supporting graphs, tables, charts, and performance data.

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Functional advanced biopolymers have received far less attention than renewable biomass (cellulose, rubber, etc.) used for energy production. Among the most advanced biopolymers known is chitosan. The term

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chitosan refers to a family of polysaccharides obtained by partial de-N-acetylation from chitin, one of the most abundant renewable resources in the biosphere. Chitosan has been firmly established as having

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unique material properties as well as biological activities. Either in its native form or as a chemical derivative, chitosan is amenable to being processed—typically under mild conditions—into soft materials such as hydrogels,

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colloidal nanoparticles, or nanofibers. Given its multiple biological properties, including biodegradability, antimicrobial effects, gene transfectability, and metal adsorption—to name but a few—chitosan is regarded as a

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widely versatile building block in various sectors (e.g., agriculture, food, cosmetics, pharmacy) and for various applications (medical devices, metal adsorption, catalysis, etc.). This Special Issue presents an updated

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account addressing some of the major applications, including also chemical and enzymatic modifications of oligos and polymers. A better understanding of the properties that underpin the use of chitin and chitosan in

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different fields is key for boosting their more extensive industrial utilization, as well as to aid regulatory agencies in establishing specifications, guidelines, and standards for the different types of products and

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applications.

*In the Beginning
Nature-Inspired Computation and
Swarm Intelligence
Bio-Ecology, Threats and
Conservation
Postsingular*

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*19th EPIA Conference on
Artificial Intelligence, EPIA 2019,
Vila Real, Portugal, September
3–6, 2019, Proceedings, Part I*
This book includes high-
quality research papers
presented at the Third

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International Conference
on Innovative Computing
and Communication (ICICC
2020), which is held at
the Shaheed Sukhdev
College of Business
Studies, University of

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Delhi, Delhi, India, on
21–23 February, 2020.

Introducing the innovative
works of scientists,
professors, research
scholars, students and
industrial experts in the

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field of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized research

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and the conversion of applied exploration into real-time applications. This book highlights a broad range of modern information technology tools, techniques,

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investigations and open challenges, mainly with applications in systems research and computational physics. Divided into three major sections, it begins by presenting

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specialized calculation methods in the framework of data analysis and intelligent computing. In turn, the second section focuses on application aspects, mainly for

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systems research, while
the final section
investigates how various
tasks in the basic
disciplines—mathematics
and physics—can be tackled
with the aid of

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contemporary IT methods.
The book gathers selected
presentations from the 3rd
Conference on Information
Technology, Systems
Research and Computational
Physics (ITSRCP'18), which

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took place on 2–5 July
2018 in Krakow, Poland.
The intended readership
includes interdisciplinary
scientists and
practitioners pursuing
research at the interfaces

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of information technology,
systems research, and
computational physics.
If we lived in a liquid
world, the concept of a
"machine" would make no
sense. Liquid life is

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metaphor and apparatus that discusses the consequences of thinking, working, and living through liquids. It is an irreducible, paradoxical, parallel, planetary-scale

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material condition,
unevenly distributed
spatially, but temporally
continuous. It is what
remains when logical
explanations can no longer
account for the

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experiences that we recognize as part of "being alive." Liquid life references a third-millennial understanding of matter that seeks to restore the agency of the

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liquid soul for an ecological era, which has been banished by reductionist, "brute" materialist discourses and mechanical models of life. Offering an alternative

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worldview of the living realm through a "new materialist" and "liquid" study of matter, it conjures forth examples of creatures that do not obey mechanistic concepts like

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predictability,
efficiency, and
rationality. With the
advent of molecular
science, an increasingly
persuasive ontology of
liquid technologies can be

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identified. Through the lens of lifelike dynamic droplets, the agency for these systems exists at the interfaces between different fields of matter/energy that respond

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to highly local effects,
with no need for a central
organizing system. Liquid
Life seeks an alternative
partnership between
humanity and the natural
world. It provokes a re-

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invention of the languages
of the living realm to
open up alternative spaces
for exploration: Rolf
Hughes' "angelology" of
language explores the
transformative invocations

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of prose poetry, and
Simone Ferracina's
graphical notations help
shape our concepts of
metabolism, upcycling, and
designing with fluids. A
conceptual and practical

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toolset for thinking and designing, Liquid Life reunites us with the irreducible "soul substance" of living things, which will neither be simply "solved," nor go

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away. Rachel Armstrong is Professor of Experimental Architecture at Newcastle University (UK), and has also been a Rising Waters II Fellow for the Robert Rauschenberg Foundation

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(April-May 2016), TW0TY futurist in 2015, Fellow of the British Interplanetary Society, and a Senior TED Fellow in 2010. She is also the coordinator of the Living

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Architecture project, an EU-funded project that establishes the principles for our buildings to share some of the properties of living things, e.g. metabolism, operating at

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the intersection of architecture, building construction, bio-energy and synthetic biology. She is also the author of *Vibrant Architecture* (De Gruyter, 2015), *Star Ark*:

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A Living, Self-Sustaining
Spaceship (Springer,
2017), and Soft Living
Architecture: An
Alternative View of Bio-
informed Design Practice
(Bloomsbury, 2018).

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The book features selected high-quality papers presented in International Conference on Computing, Power and Communication Technologies 2019 (GUCON 2019), organized by

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Galgotias University,
India, in September 2019.
Discussing in detail
topics related to
electronics devices,
circuits and systems;
signal processing; and

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bioinformatics, multimedia
and machine learning, the
papers in this book
provide interesting
reading for researchers,
engineers, and students.