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Advances in Nature and Biologically Inspired Computing

Proceedings of the 7th World
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Online Advances Nature Biologically Inspired Computing

**Nidhi Sindhwani, Rohit Anand, A.
George, Digvijay Pandey**



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Advances in Nature and Biologically Inspired Computing Nelishia Pillay, Andries P. Engelbrecht, Ajith Abraham, Mathys C. du Plessis, Václav Snášel, Azah Kamilah Muda, 2015-12-01 World Congress on Nature and Biologically Inspired Computing NaBIC is organized to discuss the state of the art as well as to address various issues with respect to Nurturing Intelligent Computing Towards Advancement of Machine Intelligence This Volume contains the papers presented in the Seventh World Congress NaBIC 15 held in Pietermaritzburg South Africa during December 01 03 2015 The 39 papers presented in this Volume were carefully reviewed and selected The Volume would be a valuable reference to researchers students and practitioners in the computational intelligence field

Advanced Computing and Systems for Security Rituparna Chaki, Khalid Saeed, Agostino Cortesi, Nabendu Chaki, 2017-03-09 This book presents extended versions of papers originally presented and discussed at the 3rd International Doctoral Symposium on Applied Computation and Security Systems ACSS 2016 held from August 12 to 14 2016 in Kolkata India The symposium was jointly organized by the AGH University of Science Ca Foscari University Venice Italy and the University of Calcutta India The book is divided into two volumes Volumes 3 and 4 and presents dissertation works in the areas of Image Processing Biometrics based Authentication Soft Computing Data Mining Next Generation Networking and Network Security Remote Healthcare Communications Embedded Systems Software Engineering and Service Engineering The first two volumes of the book published the works presented at the ACSS 2015 which was held from May 23 to 25 2015 in Kolkata India

Bio-Inspired Computing Anu Bajaj, Ajith Abraham, K. Reddy Madhavi, Dalia Kriksciuniene, 2025-05-28 This book presents 53 selected papers focused on Machine Learning and Applications from the 14th International Conference on Innovations in Bio Inspired Computing and Applications IBICA 2023 and 13th World Congress on Information and Communication Technologies WICT 2023 which was held in five different cities namely Olten Switzerland Porto Portugal Kaunas Lithuania Greater Noida India Kochi India and in online mode IBICA WICT 2023 had contributions by authors from 36 countries This book offers a valuable reference guide for all scientists academicians researchers students and practitioners focused on real world applications of modern ICT and bio inspired computing

Bio-Inspired Computing Virgilijus Sakalauskas, Anu Bajaj, Ajith Abraham, K. Reddy Madhavi, Pooja Manghirmalani Mishra, 2025-06-30 This book presents 53 selected papers focused on Machine Learning and Applications from the 14th International Conference on Innovations in Bio Inspired Computing and Applications IBICA 2023 and 13th World Congress on Information and Communication Technologies WICT 2023 which was held in five different cities namely Olten Switzerland Porto Portugal Kaunas Lithuania Greater Noida India Kochi India and in online mode IBICA WICT 2023 had contributions by authors from 36 countries This book offers a valuable reference guide for all scientists academicians researchers students and practitioners focused on Machine Learning and Applications

Bio-Inspired and Nanoscale Integrated Computing Mary Mehrnoosh Eshaghian-Wilner, 2009-06-22 Brings the latest advances in nanotechnology and

biology to computing This pioneering book demonstrates how nanotechnology can create even faster denser computing architectures and algorithms Furthermore it draws from the latest advances in biology with a focus on bio inspired computing at the nanoscale bringing to light several new and innovative applications such as nanoscale implantable biomedical devices and neural networks Bio Inspired and Nanoscale Integrated Computing features an expert team of interdisciplinary authors who offer readers the benefit of their own breakthroughs in integrated computing as well as a thorough investigation and analyses of the literature Carefully edited the book begins with an introductory chapter providing a general overview of the field It ends with a chapter setting forth the common themes that tie the chapters together as well as a forecast of emerging avenues of research Among the important topics addressed in the book are modeling of nano devices quantum computing quantum dot cellular automata dielectrophoretic reconfigurable nano architectures multilevel and three dimensional nanomagnetic recording spin wave architectures and algorithms fault tolerant nanocomputing molecular computing self assembly of supramolecular nanostructures DNA nanotechnology and computing nanoscale DNA sequence matching medical nanorobotics heterogeneous nanostructures for biomedical diagnostics biomimetic cortical nanocircuits bio applications of carbon nanotubes and nanoscale image processing Readers in electrical engineering computer science and computational biology will gain new insights into how bio inspired and nanoscale devices can be used to design the next generation of enhanced integrated circuits

Biologically-Inspired Collaborative Computing Mike Hinchey, Anastasia Pagnoni, Franz J. Rammig, Hartmut Schmeck, 2008-07-09 Look deep into nature and you will understand everything better advised Albert Einstein In recent years the research communities in Computer Science Engineering and other disciplines have taken this message to heart and a relatively new field of biologically inspired computing has been born Inspiration is being drawn from nature from the behaviors of colonies of ants of swarms of bees and even the human body This new paradigm in computing takes many simple autonomous objects or agents and lets them jointly perform a complex task without having the need for centralized control In this paradigm these simple objects interact locally with their environment using simple rules Applications include optimization algorithms communications networks scheduling and decision making supply chain management and robotics to name just a few There are many disciplines involved in making such systems work from artificial intelligence to energy aware systems Often these disciplines have their own field of focus have their own conferences or only deal with specialized problems e g swarm intelligence biologically inspired computation sensor networks The Second IFIP Conference on Biologically Inspired Collaborative Computing aims to bridge this separation of the scientific community and bring together researchers in the fields of Organic Computing Autonomic Computing Self Organizing Systems Pervasive Computing and related areas We are very pleased to have two very important keynote presentations Swarm Robotics The Coordination of Robots via Swarm Intelligence Principles by Marco Dorigo Universit Libre de Bruxelles Belgium of which an abstract is included in this volume

Bio-Inspired Computing and Networking Yang

Xiao,2016-04-19 Seeking new methods to satisfy increasing communication demands researchers continue to find inspiration from the complex systems found in nature From ant inspired allocation to a swarm algorithm derived from honeybees Bio Inspired Computing and Networking explains how the study of biological systems can significantly improve computing networki Advanced Research on Biologically Inspired Cognitive Architectures Vallverdú, Jordi,Mazzara, Manuel,Talanov, Max,Distefano, Salvatore,Lowe, Robert,2017-01-25 There are many different approaches to understanding human consciousness By conducting research to better understand various biological mechanisms these can be redefined and utilized for technological purposes Advanced Research on Biologically Inspired Cognitive Architectures is an essential reference source for the latest scholarly research on the biological elements of human cognition and examines the applications of consciousness within computing environments Featuring exhaustive coverage on a broad range of innovative topics and perspectives such as artificial intelligence bio robotics and human computer interaction this publication is ideally designed for academics researchers professionals graduate students and practitioners seeking current research on the exploration of the intricacies of consciousness and different approaches of perception Bio-Inspired Computing: Theories and Applications Linqiang Pan,Yong Wang,Jianqing Lin,2024-04-15 The two volume set CCIS 2061 and 2062 constitutes the refereed post conference proceedings of the 18th International Conference on Bio Inspired Computing Theories and Applications BIC TA 2023 held in Changsha China during December 15 17 2023 The 64 revised full papers presented in these proceedings were carefully reviewed and selected from 168 submissions The papers are organized in the following topical sections Volume I Evolutionary Computation and Swarm Intelligence and Membrane Computing and DNA Computing Volume II Machine Learning and Applications and Intelligent Control and Application Bio-inspired Algorithms in Machine Learning and Deep Learning for Disease Detection Balasubramaniam S,Seifedine Kadry,Manoj Kumar TK,K. Satheesh Kumar,2025-03-13 Currently computational intelligence approaches are utilised in various science and engineering applications to analyse information make decisions and achieve optimisation goals Over the past few decades various techniques and algorithms have been created in disciplines such as genetic algorithms artificial neural networks evolutionary algorithms and fuzzy algorithms In the coming years intelligent optimisation algorithms are anticipated to become more efficient in addressing various issues in engineering scientific medical space and artificial satellite fields particularly in early disease diagnosis A metaheuristic in computer science is designed to discover optimisation algorithms capable of solving intricate issues Metaheuristics are optimisation algorithms that mimic biological behaviours of animals or birds and are utilised to discover the best solution for a certain problem A meta heuristic is an advanced approach used by heuristics to tackle intricate optimisation problems A metaheuristic in mathematical programming is a method that seeks a solution to an optimisation problem Metaheuristics utilise a heuristic function to assist in the search process Heuristic search can be categorised as blind search or informed search Meta heuristic optimisation algorithms are gaining popularity in various

applications due to their simplicity independence from data trends ability to find optimal solutions and versatility across different fields Recently many nature inspired computation algorithms have been utilised to diagnose people with different diseases Nature inspired methodologies are now widely utilised across several fields for tasks such as data analysis decision making and optimisation Techniques inspired by nature are categorised as either biology based or natural phenomena based Bioinspired computing encompasses various topics in computer science mathematics and biology in recent years Bio inspired computer optimisation algorithms are a developing method that utilises concepts and inspiration from biological development to create new and resilient competitive strategies Bio inspired optimisation algorithms have gained recognition in machine learning and deep learning for solving complicated issues in science and engineering Utilising BIAs learning methods with machine learning and deep learning shows great promise for accurately classifying medical conditions This book explores the historical development of bio inspired algorithms and their application in machine learning and deep learning models for disease diagnosis including COVID 19 heart diseases cancer diabetes and some other diseases It discusses the advantages of using bio inspired algorithms in disease diagnosis and concludes with research directions and future prospects in this field

Advances in Artificial Intelligence and Data Engineering Niranjan N. Chiplunkar,Takanori Fukao,2020-08-13 This book presents selected peer reviewed papers from the International Conference on Artificial Intelligence and Data Engineering AIDE 2019 The topics covered are broadly divided into four groups artificial intelligence machine vision and robotics ambient intelligence and data engineering The book discusses recent technological advances in the emerging fields of artificial intelligence machine learning robotics virtual reality augmented reality bioinformatics intelligent systems cognitive systems computational intelligence neural networks evolutionary computation speech processing Internet of Things big data challenges data mining information retrieval and natural language processing Given its scope this book can be useful for students researchers and professionals interested in the growing applications of artificial intelligence and data engineering

Biotechnology: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2019-06-07 Biotechnology can be defined as the manipulation of biological process systems and organisms in the production of various products With applications in a number of fields such as biomedical chemical mechanical and civil engineering research on the development of biologically inspired materials is essential to further advancement Biotechnology Concepts Methodologies Tools and Applications is a vital reference source for the latest research findings on the application of biotechnology in medicine engineering agriculture food production and other areas It also examines the economic impacts of biotechnology use Highlighting a range of topics such as pharmacogenomics biomedical engineering and bioinformatics this multi volume book is ideally designed for engineers pharmacists medical professionals practitioners academicians and researchers interested in the applications of biotechnology

Computational Vision and Bio-Inspired Computing S. Smys,João Manuel R. S. Tavares,Valentina Emilia Balas,2022-03-30 This book includes selected papers from the 5th

International Conference on Computational Vision and Bio Inspired Computing ICCVBIC 2021 held in Coimbatore India during November 25 26 2021 This book presents state of the art research innovations in computational vision and bio inspired techniques The book reveals the theoretical and practical aspects of bio inspired computing techniques like machine learning sensor based models evolutionary optimization and big data modeling and management that make use of effectual computing processes in the bio inspired systems It also contributes to the novel research that focuses on developing bio inspired computing solutions for various domains such as human computer interaction image processing sensor based single processing recommender systems and facial recognition which play an indispensable part in smart agriculture smart city biomedical and business intelligence applications *Hybrid Advanced Optimization Methods with Evolutionary Computation Techniques in Energy Forecasting* Wei-Chiang Hong, 2018-10-19 This book is a printed edition of the Special Issue Hybrid Advanced Optimization Methods with Evolutionary Computation Techniques in Energy Forecasting that was published in *Energies*

Advanced Methodologies and Technologies in Artificial Intelligence, Computer Simulation, and Human-Computer Interaction Khosrow-Pour, D.B.A., Mehdi, 2018-09-28 As modern technologies continue to develop and evolve the ability of users to adapt with new systems becomes a paramount concern Research into new ways for humans to make use of advanced computers and other such technologies through artificial intelligence and computer simulation is necessary to fully realize the potential of tools in the 21st century Advanced Methodologies and Technologies in Artificial Intelligence Computer Simulation and Human Computer Interaction provides emerging research in advanced trends in robotics AI simulation and human computer interaction Readers will learn about the positive applications of artificial intelligence and human computer interaction in various disciplines such as business and medicine This book is a valuable resource for IT professionals researchers computer scientists and researchers invested in assistive technologies artificial intelligence robotics and computer simulation

Evolvable Systems: From Biology to Hardware Gregory S. Hornby, Lukas Sekanina, 2008-09-08 This book constitutes the refereed proceedings of the 8th International Conference on Evolvable Systems ICES 2008 held in Prague Czech Republic in September 2008 The 28 revised full papers and 14 revised poster papers presented were carefully reviewed and selected from 52 submissions The papers are organized in topical sections on evolution of analog circuits evolution of digital circuits hardware software codesign and platforms for adaptive systems evolutionary robotics development real world applications evolutionary networking evolvable artificial neural networks and transistor level circuit evolution

Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen, 2009

Innovations in Bio-Inspired Computing and Applications Václav Snášel, Ajit Abraham, Pavel Krömer, Millie Pant, Azah Kamilah Muda, 2015-12-14 This Volume contains the papers presented during the 6th International Conference on Innovations in Bio Inspired Computing and Applications IBICA 2015 which was held in Kochi India during December 16 18 2015 The 51 papers presented in this Volume were

carefully reviewed and selected The 6th International Conference IBICA 2015 has been organized to discuss the state of the art as well as to address various issues in the growing research field of Bio inspired Computing which is currently one of the most exciting research areas and is continuously demonstrating exceptional strength in solving complex real life problems The Volume will be a valuable reference to researchers students and practitioners in the computational intelligence field

Bio-inspired computation and its applications Tinggui Chen,Zhihua Cui,Gongfa Li,Xiao-Zhi Gao,Honghai Liu,2023-07-06 **Bio-Inspired Computing for Information Retrieval Applications** Acharjya, D.P.,Mitra, Anirban,2017-02-14 The growing presence of biologically inspired processing has caused significant changes in data retrieval With the ubiquity of these technologies more effective and streamlined data processing techniques are available Bio Inspired Computing for Information Retrieval Applications is a key resource on the latest advances and research regarding current techniques that have evolved from biologically inspired processes and its application to a variety of problems Highlighting multidisciplinary studies on data processing swarm based clustering and evolutionary computation this publication is an ideal reference source for researchers academics professionals students and practitioners

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