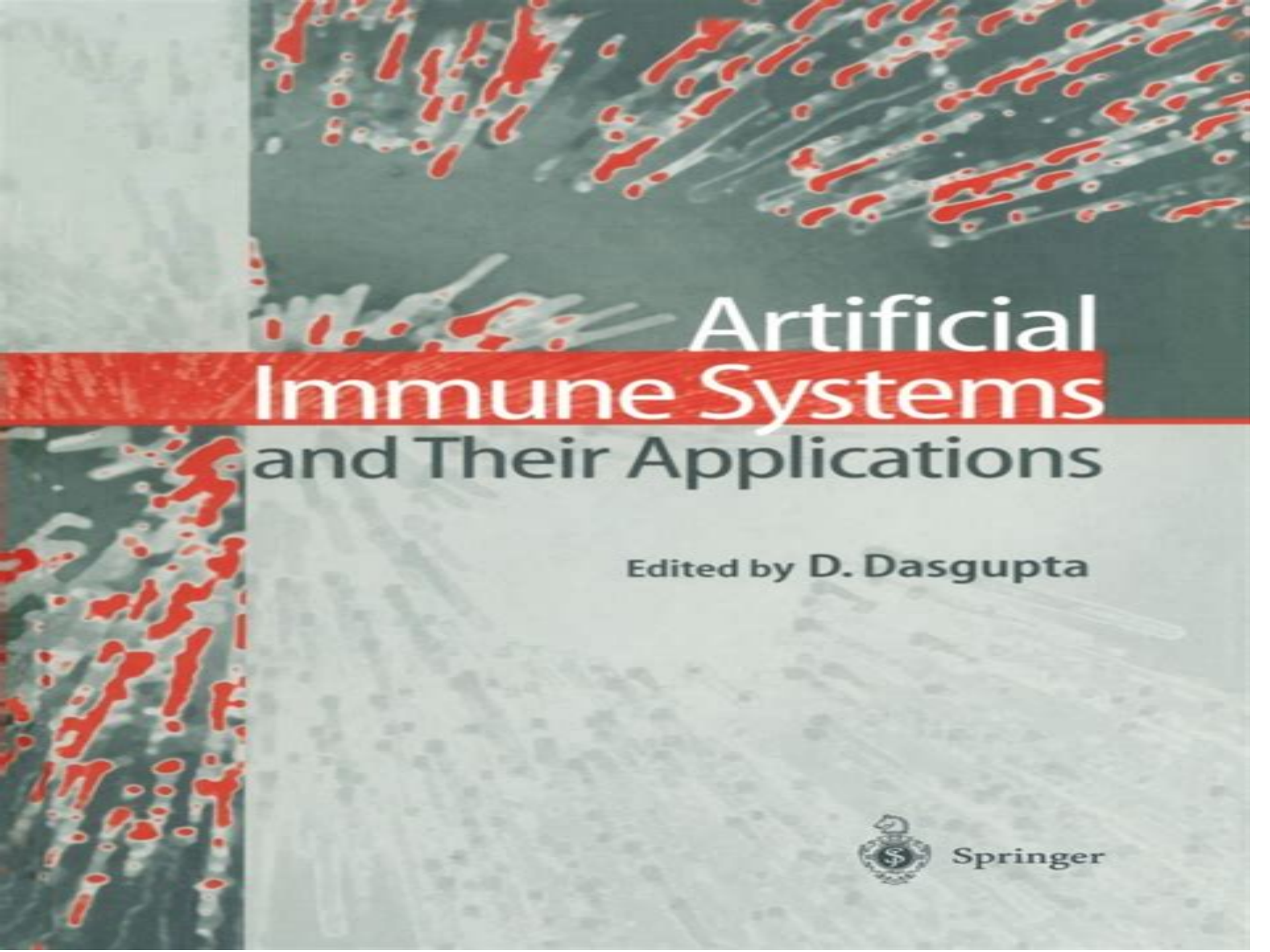




Artificial Immune Systems and Their Applications

Edited by D. Dasgupta



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Artificial Immune Systems And Their Applications

Dipankar Dasgupta



Artificial Immune Systems And Their Applications:

Artificial Immune Systems and Their Applications Dipankar Dasgupta,2012-12-06 Artificial immune systems are highly distributed systems based on the principles of the natural system This is a new and rapidly growing field offering powerful and robust information processing capabilities for solving complex problems Like artificial neural networks artificial immune systems can learn new information recall previously learned information and perform pattern recognition in a highly decentralized fashion This volume provides an overview of the immune system from the computational viewpoint It discusses computational models of the immune system and their applications and provides a wealth of insights on immunological memory and the effects of viruses in immune response It will be of professional interest to scientists academics vaccine designers and practitioners

Artificial Immune Systems: A New Computational Intelligence Approach Leandro Nunes de Castro,Jonathan Timmis,2002-09-23 Artificial Immune Systems AIS are adaptive systems inspired by the biological immune system and applied to problem solving This book provides an accessible introduction that will be suitable for anyone who is beginning to study or work in this area It gives a clear definition of an AIS sets out the foundations of the topic including basic algorithms and analyses how the immune system relates to other biological systems and processes No prior knowledge of immunology is needed all the essential background information is covered in the introductory chapters Key features of the book include A discussion of AIS in the context of Computational Intelligence Case studies in Autonomous Navigation Computer Network Security Job Shop Scheduling and Data Analysis B7 An extensive survey of applications A framework to help the reader design and understand AIS A web site with additional resources including pseudocodes for immune algorithms and links to related sites Written primarily for final year undergraduate and postgraduate students studying Artificial Intelligence Evolutionary and Biologically Inspired Computing this book will also be of interest to industrial and academic researchers working in related areas

Supply Chain Management Models Hamed Fazlollahtabar,2018-01-02 Supply Chain Management SCM is a wide field in which several specialties are included In general operations and production management players use SCM to organize the problems and analyze the solution approaches Due to these points a reference which can encompass a range of problems and their modelling approaches is required This book will contain three general sections of forward reverse intelligent and uncertain problems While the book provides different problems in the three commonly used categories in SCM it is very helpful for the readers to find out or adapt their own application studies to the ones given in the book and employ the corresponding modeling approach

Machine Learning Paradigms Dionisios N. Sotiropoulos,George A. Tsihrintzis,2016-10-26 The topic of this monograph falls within the so called biologically motivated computing paradigm in which biology provides the source of models and inspiration towards the development of computational intelligence and machine learning systems Specifically artificial immune systems are presented as a valid metaphor towards the creation of abstract and high level representations of biological components or

functions that lay the foundations for an alternative machine learning paradigm Therefore focus is given on addressing the primary problems of Pattern Recognition by developing Artificial Immune System based machine learning algorithms for the problems of Clustering Classification and One Class Classification Pattern Classification in particular is studied within the context of the Class Imbalance Problem The main source of inspiration stems from the fact that the Adaptive Immune System constitutes one of the most sophisticated biological systems that is exceptionally evolved in order to continuously address an extremely unbalanced pattern classification problem namely the self non self discrimination process The experimental results presented in this monograph involve a wide range of degenerate binary classification problems where the minority class of interest is to be recognized against the vast volume of the majority class of negative patterns In this context Artificial Immune Systems are utilized for the development of personalized software as the core mechanism behind the implementation of Recommender Systems The book will be useful to researchers practitioners and graduate students dealing with Pattern Recognition and Machine Learning and their applications in Personalized Software and Recommender Systems It is intended for both the expert researcher in these fields as well as for the general reader in the field of Computational Intelligence and more generally Computer Science who wishes to learn more about the field of Intelligent Computing Systems and its applications An extensive list of bibliographic references at the end of each chapter guides the reader to probe further into application area of interest to him her

Mapping Biological Systems to Network Systems Heena Rathore, 2016-02-10 The book presents the challenges inherent in the paradigm shift of network systems from static to highly dynamic distributed systems it proposes solutions that the symbiotic nature of biological systems can provide into altering networking systems to adapt to these changes The author discuss how biological systems which have the inherent capabilities of evolving self organizing self repairing and flourishing with time are inspiring researchers to take opportunities from the biology domain and map them with the problems faced in network domain The book revolves around the central idea of bio inspired systems it begins by exploring why biology and computer network research are such a natural match This is followed by presenting a broad overview of biologically inspired research in network systems it is classified by the biological field that inspired each topic and by the area of networking in which that topic lies Each case elucidates how biological concepts have been most successfully applied in various domains Nevertheless it also presents a case study discussing the security aspects of wireless sensor networks and how biological solution stand out in comparison to optimized solutions Furthermore it also discusses novel biological solutions for solving problems in diverse engineering domains such as mechanical electrical civil aerospace energy and agriculture The readers will not only get proper understanding of the bio inspired systems but also better insight for developing novel bio inspired solutions

Neutrosophic Sets and Systems, vol. 74/2024 {Special Issue: Advances in SuperHyperStructures and Applied Neutrosophic Theories} Florentin Smarandache, Mohamed Abdel-Basset, Maikel Leyva-Vázquez , 2024-12-16 This volume contains the proceedings of the

conference held at the University of Guayaquil on November 28 and 29 2024 featuring contributions from researchers representing Colombia Cuba Ecuador Spain the United States Greece Japan Mexico and Peru The conference focused on SuperHyperStructures and Applied Neutrosophic Theories commemorating the 30th anniversary of neutrosophic theories and their extensive applications The topic of SuperHyperStructures and Neutrosophic SuperHyperStructures explores advanced mathematical frameworks built on powersets of a set extending to higher orders SuperHyperStructures are constructed using all non empty subsets of while Neutrosophic SuperHyperStructures incorporate the empty set representing indeterminacy These structures model real world systems where elements are organized hierarchically from sets to sub sets and beyond enabling the analysis of complex and indeterminate relationships

High Performance Programming for Soft Computing Oscar Humberto Montiel Ross,Roberto Sepulveda,2014-02-04 This book examines the present and future of soft computer techniques It explains how to use the latest technological tools such as multicore processors and graphics processing units to implement highly efficient intelligent system methods using a general purpose computer

Intelligent Computing and Information Science Ran Chen,2010-12-23 This two volume set CCIS 134 and CCIS 135 constitutes the refereed proceedings of the International Conference on Intelligent Computing and Information Science ICICIS2011 held in Chongqing China in January 2011 The 226 revised full papers presented in both volumes CCIS 134 and CCIS 135 were carefully reviewed and selected from over 600 initial submissions The papers provide the reader with a broad overview of the latest advances in the field of intelligent computing and information science

Genetic and Evolutionary Computation--GECCO 2003 Erick Cantú-Paz,2003-07-08 The set LNCS 2723 and LNCS 2724 constitutes the refereed proceedings of the Genetic and Evolutionary Computation Conference GECCO 2003 held in Chicago IL USA in July 2003 The 193 revised full papers and 93 poster papers presented were carefully reviewed and selected from a total of 417 submissions The papers are organized in topical sections on a life adaptive behavior agents and ant colony optimization artificial immune systems coevolution DNA molecular and quantum computing evolvable hardware evolutionary robotics evolution strategies and evolutionary programming evolutionary scheduling routing genetic algorithms genetic programming learning classifier systems real world applications and search based software engineering

Proceedings of the First International Conference on Advanced Data and Information Engineering (DaEng-2013) Tutut Herawan,Mustafa Mat Deris,Jemal Abawajy,2013-12-14 The proceeding is a collection of research papers presented at the International Conference on Data Engineering 2013 DaEng 2013 a conference dedicated to address the challenges in the areas of database information retrieval data mining and knowledge management thereby presenting a consolidated view to the interested researchers in the aforesaid fields The goal of this conference was to bring together researchers and practitioners from academia and industry to focus on advanced on data engineering concepts and establishing new collaborations in these areas The topics of interest are as follows but are not limited to Database theory Data management Data mining and warehousing

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