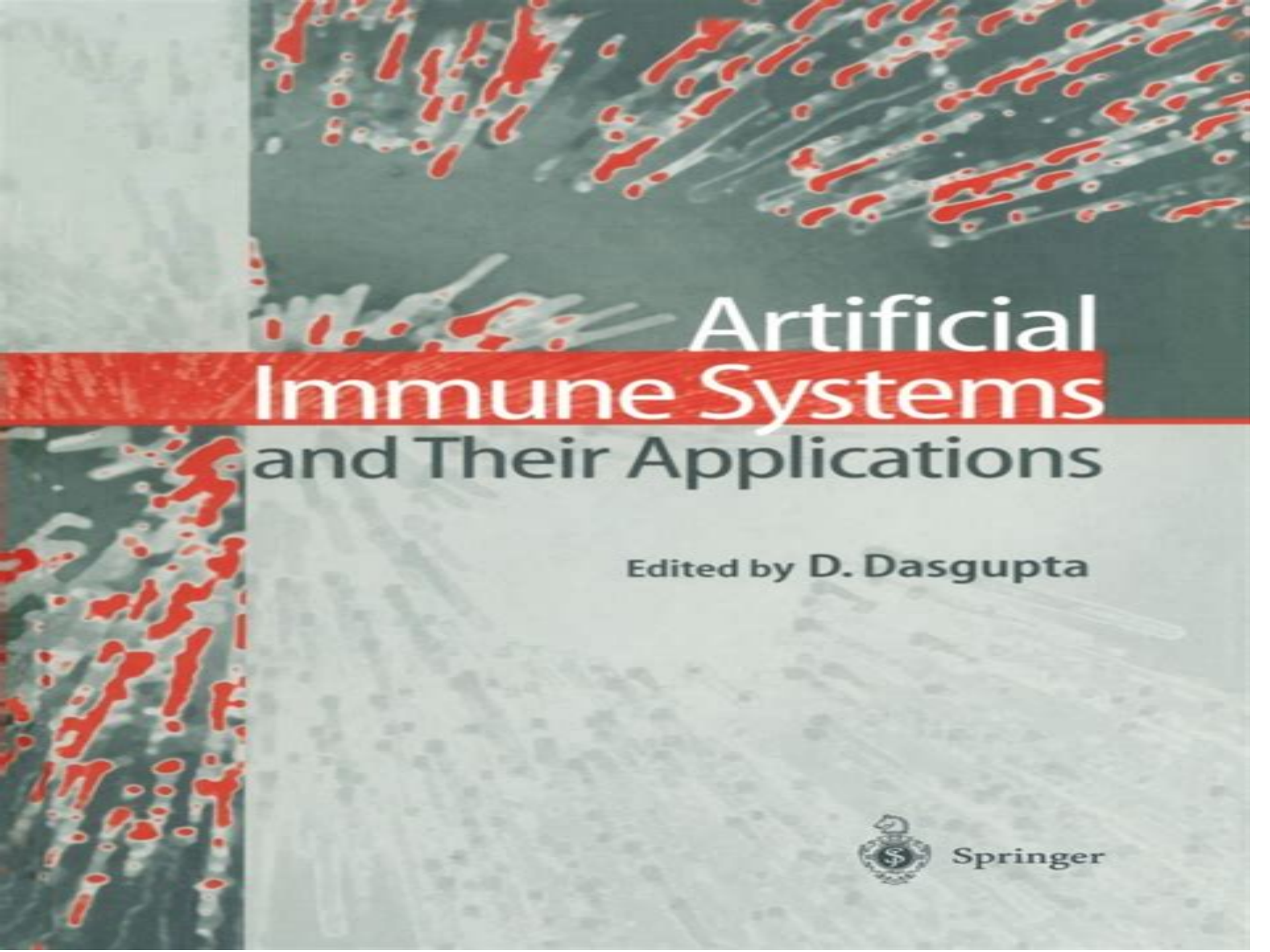




Artificial Immune Systems and Their Applications

Edited by D. Dasgupta



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Artificial Immune Systems And Their Applications

Hamed Fazlollahtabar



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: 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 modelling 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

Developing a Cybersecurity Immune System for Industry 4.0 Sergei

Petrenko,2022-09-01 Cyber immune systems try to mimic the adaptive immune system of humans and animals because of its capability to detect and fend off new unseen pathogens Today s current cyber security systems provide an effective defense mechanism against known cyber attacks but are not so good when it comes to defending against unknown attacks This book describes the possible development and organization of self healing computing based on cyber immunity techniques and aimed at working in the new realm of Industry 4 0 Industry 4 0 is the trend towards automation and data exchange in manufacturing technologies and processes which include cyber physical systems CPS the internet of things IoT industrial internet of things IIOT cloud computing cognitive computing and artificial intelligence The book describes the author s research and development of cyber immunity systems that will prevent the destruction of critical information infrastructure by future unknown cyber attacks and thus avoid the significant or catastrophic consequences of such attacks The book is designed for undergraduate and post graduate students for engineers in related fields as well as managers of corporate and state structures chief information officers CIO chief information security officers CISO architects and research engineers in the field of cybersecurity This book contains four chapters1 Cyber Immunity Concept of the Industry 4 0 2 Mathematical Framework for Immune Protection of Industry 4 0 3 Trends and prospects of the development of Immune Protection of Industry 4 0 4 From detecting cyber attacks to self healing Industry 4 0

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 **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

Distributed Sensing and Intelligent Systems Mohamed Elhoseny, Xiaohui Yuan, Salah-ddine Krit, 2022-06-27 This book is the proceeding of the 1st International Conference on Distributed Sensing and Intelligent Systems ICDSIS2020 which will be held in The National School of Applied Sciences of Agadir Ibn Zohr University Agadir Morocco on February 01 03 2020 ICDSIS2020 is co organized by Computer Vision and Intelligent Systems Lab University of North Texas USA as a scientific collaboration event with The National School of Applied Sciences of Agadir Ibn Zohr University ICDSIS2020 aims to foster

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Introduction to Evolutionary Algorithms Xinjie Yu, Mitsuo Gen, 2010-06-10 Evolutionary algorithms are becoming increasingly attractive across various disciplines such as operations research computer science industrial engineering electrical engineering social science and economics Introduction to Evolutionary Algorithms presents an insightful comprehensive and up to date treatment of evolutionary algorithms It covers such hot topics as genetic algorithms differential evolution swarm intelligence and artificial immune systems The reader is introduced to a range of applications as Introduction to Evolutionary Algorithms demonstrates how to model real world problems how to encode and decode individuals and how to design effective search operators according to the chromosome structures with examples of constraint optimization multiobjective optimization combinatorial optimization and supervised unsupervised learning This emphasis on practical applications will benefit all students whether they choose to continue their academic career or to enter a particular industry Introduction to Evolutionary Algorithms is intended as a textbook or self study material for both advanced undergraduates and graduate students Additional features such as recommended further reading and ideas for research projects combine to form an accessible and interesting pedagogical approach to this widely used discipline

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