

Adaptation, Learning, and Optimization 18

Iztok Fister
Iztok Fister Jr. *Editors*

Adaptation and Hybridization in Computational Intelligence



 Springer

Adaptation And Hybridization In Computational Intelligence Adaptation Learning And Optimization

**Ujjwal Maulik, Sanghamitra
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Adaptation And Hybridization In Computational Intelligence Adaptation Learning And Optimization:

Adaptation and Hybridization in Computational Intelligence Iztok Fister,Iztok Fister Jr.,2015-01-24 This carefully edited book takes a walk through recent advances in adaptation and hybridization in the Computational Intelligence CI domain It consists of ten chapters that are divided into three parts The first part illustrates background information and provides some theoretical foundation tackling the CI domain the second part deals with the adaptation in CI algorithms while the third part focuses on the hybridization in CI This book can serve as an ideal reference for researchers and students of computer science electrical and civil engineering economy and natural sciences that are confronted with solving the optimization modeling and simulation problems It covers the recent advances in CI that encompass Nature inspired algorithms like Artificial Neural networks Evolutionary Algorithms and Swarm Intelligence based algorithms

Computational Intelligence in Sports Iztok Fister,Iztok Fister Jr.,Dušan Fister,2018-12-17 This book presents recent research on computational intelligence CI algorithms in the field of sport In the modern age information technologies have greatly reduced the need for human effort in the carrying out of many daily tasks These technologies have radically influenced the lives of humans and the information society in general Unfortunately these advances have brought with them certain negative effects including the encouragement of sedentary lifestyles and the attendant health problems such as obesity that these engender Other modern maladies chiefly cardiovascular disease diabetes and cancer have also been on the increase Today sports are virtually the only activity that still connects modern humans to their original lifestyle which was based on physical motion This book tears familiarizing sports scientists with the foundations of computational intelligence while at the same time presenting the problems that have arisen in the training domain to computer scientists Lastly the book proposes the use of an Artificial Sports Trainer designed to enhance the training of modern athletes who cannot afford the considerable expense of hiring a human personal trainer This intelligent system can monitor performance and design and direct appropriate future training thus promoting both healthy lifestyles and competitive success in athletes Numerical and Evolutionary Optimization 2018 Adriana Lara,Marcela Quiroz,Efrén Mezura-Montes,Oliver Schütze,2019-11-19 This book was established after the 6th International Workshop on Numerical and Evolutionary Optimization NEO representing a collection of papers on the intersection of the two research areas covered at this workshop numerical optimization and evolutionary search techniques While focusing on the design of fast and reliable methods lying across these two paradigms the resulting techniques are strongly applicable to a broad class of real world problems such as pattern recognition routing energy lines of production prediction and modeling among others This volume is intended to serve as a useful reference for mathematicians engineers and computer scientists to explore current issues and solutions emerging from these mathematical and computational methods and their applications **Optimization in Control Applications** Guillermo

Valencia-Palomo,Francisco Ronay López-Estrada,2019-01-10 This book is a printed edition of the Special Issue Optimization

in Control Applications that was published in MCA **Proceedings of the International Conference on Intelligent Vision and Computing (ICIVC 2021)** Harish Sharma,Vijay Kumar Vyas,Rajesh Kumar Pandey,Mukesh Prasad,2022-03-23 This book gathers outstanding research papers presented at the International Conference on Intelligent Vision and Computing ICIVC 2021 held online during October 03 04 2021 ICIVC 2021 is organised by Sur University Oman The book presents novel contributions in intelligent vision and computing and serves as reference material for beginners and advanced research The topics covered are intelligent systems intelligent data analytics and computing intelligent vision and applications collective intelligence soft computing optimization cloud computing machine learning intelligent software robotics data science data security big data analytics and signal natural language processing Proceedings of International Conference on Intelligent Vision and Computing (ICIVC 2023) Apu Kumar Saha,Harish Sharma,Mukesh Prasad,2024-10-28 This book contains outstanding research papers as the proceedings of the 3rd International Conference on Intelligent Vision and Computing ICIVC 2023 ICIVC 2023 has been organized by National Institute of Technology Agartala India under the technical sponsorship of the Soft Computing Research Society India It was held on November 25 26 2023 at National Institute of Technology Agartala India The conference was conceived as a platform for disseminating and exchanging ideas concepts and results of the researchers from academia and industry to develop a comprehensive understanding of the challenges of the advancements of intelligence in computational viewpoints This book will help in strengthening congenial networking between academia and industry The conference focused on collective intelligence soft computing optimization cloud computing machine learning intelligent software robotics data science data security big data analytics signal and natural language processing **Computational Intelligence and Pattern Analysis in Biology Informatics** Ujjwal Maulik,Sanghamitra Bandyopadhyay,Jason T. Wang,2011-03-21 An invaluable tool in Bioinformatics this unique volume provides both theoretical and experimental results and describes basic principles of computational intelligence and pattern analysis while deepening the reader s understanding of the ways in which these principles can be used for analyzing biological data in an efficient manner This book synthesizes current research in the integration of computational intelligence and pattern analysis techniques either individually or in a hybridized manner The purpose is to analyze biological data and enable extraction of more meaningful information and insight from it Biological data for analysis include sequence data secondary and tertiary structure data and microarray data These data types are complex and advanced methods are required including the use of domain specific knowledge for reducing search space dealing with uncertainty partial truth and imprecision efficient linear and or sub linear scalability incremental approaches to knowledge discovery and increased level and intelligence of interactivity with human experts and decision makers Chapters authored by leading researchers in CI in biology informatics Covers highly relevant topics rational drug design analysis of microRNAs and their involvement in human diseases Supplementary material included program code and relevant data sets correspond to

chapters *Proceedings of the 18th Asia Pacific Symposium on Intelligent and Evolutionary Systems - Volume 2* Hisashi Handa, Hisao Ishibuchi, Yew-Soon Ong, Kay-Chen Tan, 2014-11-04 This book contains a collection of the papers accepted in the 18th Asia Pacific Symposium on Intelligent and Evolutionary Systems IES 2014 which was held in Singapore from 10-12th November 2014. The papers contained in this book demonstrate notable intelligent systems with good analytical and/or empirical results.

Computational Intelligence for Big Data Analysis D.P. Acharjya, Satchidananda Dehuri, Sugata Sanyal, 2015-04-21 The work presented in this book is a combination of theoretical advancements of big data analysis, cloud computing and their potential applications in scientific computing. The theoretical advancements are supported with illustrative examples and its applications in handling real life problems. The applications are mostly undertaken from real life situations. The book discusses major issues pertaining to big data analysis using computational intelligence techniques and some issues of cloud computing. An elaborate bibliography is provided at the end of each chapter. The material in this book includes concepts, figures, graphs and tables to guide researchers in the area of big data analysis and cloud computing.

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