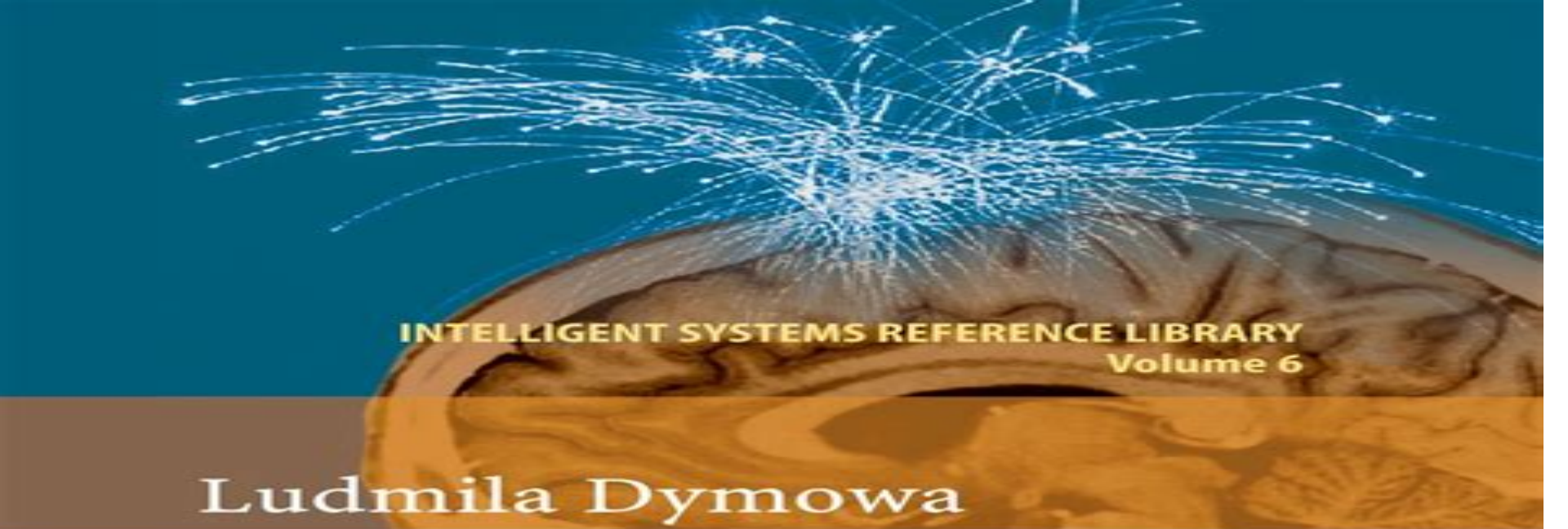




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# Soft Computing in Economics and Finance

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**Witold Pedrycz, Shyi-Ming Chen**



## **Soft Computing In Economics And Finance Intelligent Systems Reference Library:**

*Soft Computing in Economics and Finance* Ludmila Dymowa, 2011-01-21 Currently the methods of Soft Computing are successfully used for risk analysis in budgeting e commerce development portfolio selection Black Scholes option pricing models corporate acquisition systems evaluating investments in advanced manufacturing technology interactive fuzzy interval reasoning for smart web shopping fuzzy scheduling and logistic An essential feature of economic and financial problems is that there are always at least two criteria to be taken into account profit maximization and risk minimization Therefore the economic and financial problems are multiple criteria ones In this book a new systematization of the problems of multiple criteria decision making is proposed which allows the author to reveal unsolved problems The solutions of them are presented as well and implemented to deal with some important real world problems such as investment project s evaluation tool steel material selection problem stock screening and fuzzy logistic It is well known that the best results in real world applications can be obtained using the synthesis of modern methods of soft computing Therefore the developed by the author new approach to building effective stock trading systems based on the synthesis of fuzzy logic and the Dempster Shafer theory seems to be a considerable contribution to the application of soft computing method in economics and finance An important problem of capital budgeting is the fuzzy evaluation of the Internal Rate of Return In this book this problem is solved using a new method which makes it possible to solve linear and nonlinear interval and fuzzy equations and systems of them The developed new method allows the author to obtain an effective solution of the Leontjev s input output problem in the interval setting

**Granular Computing and Intelligent Systems** Witold Pedrycz, Shyi-Ming Chen, 2011-04-28 Information granules are fundamental conceptual entities facilitating perception of complex phenomena and contributing to the enhancement of human centricity in intelligent systems The formal frameworks of information granules and information granulation comprise fuzzy sets interval analysis probability rough sets and shadowed sets to name only a few representatives Among current developments of Granular Computing interesting options concern information granules of higher order and of higher type The higher order information granularity is concerned with an effective formation of information granules over the space being originally constructed by information granules of lower order This construct is directly associated with the concept of hierarchy of systems composed of successive processing layers characterized by the increasing levels of abstraction This idea of layered hierarchical realization of models of complex systems has gained a significant level of visibility in fuzzy modeling with the well established concept of hierarchical fuzzy models where one strives to achieve a sound tradeoff between accuracy and a level of detail captured by the model and its level of interpretability Higher type information granules emerge when the information granules themselves cannot be fully characterized in a purely numerical fashion but instead it becomes convenient to exploit their realization in the form of other types of information granules such as type 2 fuzzy sets interval valued fuzzy sets or probabilistic fuzzy sets Higher order and

higher type of information granules constitute the focus of the studies on Granular Computing presented in this study The book elaborates on sound methodologies of Granular Computing algorithmic pursuits and an array of diverse applications and case studies in environmental studies option price forecasting and power engineering The Handbook on Reasoning-Based Intelligent Systems Kazumi Nakamatsu,2013 This book consists of various contributions in conjunction with the keywords OC reasoningOCO and OC intelligent systemsOCO which widely covers theoretical to practical aspects of intelligent systems Therefore it is suitable for researchers or graduate students who want to study intelligent systems generally **Intelligent Systems** Crina Grosan,Ajith Abraham,2011-07-29 Computational intelligence is a well established paradigm where new theories with a sound biological understanding have been evolving The current experimental systems have many of the characteristics of biological computers brains in other words and are beginning to be built to perform a variety of tasks that are difficult or impossible to do with conventional computers As evident the ultimate achievement in this field would be to mimic or exceed human cognitive capabilities including reasoning recognition creativity emotions understanding learning and so on This book comprising of 17 chapters offers a step by step introduction in a chronological order to the various modern computational intelligence tools used in practical problem solving Starting with different search techniques including informed and uninformed search heuristic search minmax alpha beta pruning methods evolutionary algorithms and swarm intelligent techniques the authors illustrate the design of knowledge based systems and advanced expert systems which incorporate uncertainty and fuzziness Machine learning algorithms including decision trees and artificial neural networks are presented and finally the fundamentals of hybrid intelligent systems are also depicted Academics scientists as well as engineers engaged in research development and application of computational intelligence techniques machine learning and data mining would find the comprehensive coverage of this book invaluable Information Processing and Biological Systems Samuli Niiranen,Andre Ribeiro,2011-03-10 Living beings require constant information processing for survival In cells information is being processed and propagated at various levels from the gene regulatory network to chemical pathways to the interaction with the environment How this is achieved and how information is coded is still poorly understood For example what a cell interprets as information in the temporal level of an mRNA and what is interpreted as noise remains an open question Recently information theoretical methods and other tools developed in the context of engineering and natural sciences have been applied to study diverse biological processes This book covers the latest findings on how information is processed in various biological processes ranging from information processing and propagation in gene regulatory networks to information processing in natural language An overview is presented of the state of the art in information processing in biological systems and the opinion of current leaders in this research field on future research directions **Game Theoretic Analysis of Congestion, Safety and Security** Kjell Hausken,Jun Zhuang,2014-12-31 Maximizing reader insights into the roles of intelligent agents in networks air traffic and emergency

departments this volume focuses on congestion in systems where safety and security are at stake devoting special attention to applying game theoretic analysis of congestion to protocols in wired and wireless networks power generation air transportation and emergency department overcrowding Reviewing exhaustively the key recent research into the interactions between game theory excessive crowding and safety and security elements this book establishes a new research angle by illustrating linkages between the different research approaches and serves to lay the foundations for subsequent analysis Congestion excessive crowding is defined in this work as all kinds of flows e g road sea air traffic people data information water electricity and organisms Analysing systems where congestion occurs which may be in parallel series interlinked or interdependent with flows one way or both ways this book puts forward new congestion models breaking new ground by introducing game theory and safety security into proceedings Addressing the multiple actors who may hold different concerns regarding system reliability e g one or several terrorists a government various local or regional government agencies or others with stakes for or against system reliability this book describes how governments and authorities may have the tools to handle congestion but that these tools need to be improved whilst additionally ensuring safety and security against various threats This game theoretic analysis sets this two volume book apart from the current congestion literature and ensures that the work will be of use to postgraduates researchers 3rd 4th year undergraduates policy makers and practitioners

**Calculus Light** Menahem Friedman, Abraham Kandel, 2011-03-08 Another Calculus book As long as students find calculus scary the failure rate in mathematics is higher than in all other subjects and as long as most people mistakenly believe that only geniuses can learn and understand mathematics there will always be room for a new book of Calculus We call it Calculus Light This book is designed for a one semester course in light calculus mostly single variable meant to be used by undergraduate students without a wide mathematical background and who do not major in mathematics but study subjects such as engineering biology or management information systems The first chapter contains a historical background of calculus Every scientific achievement involves people and therefore characterized by victories and disappointments intrigues and hope All of these elements exist in the story behind calculus and when you add the time dimension starting 2400 years ago it is a saga We hope the reader enjoys reading this chapter as much as we enjoyed the writing In addition to classic calculus the book provides tools for practical applications such as Fourier series Lagrange multipliers and elementary numerical methods

*Intelligent-Based Systems Engineering* Andreas Tolk, Lakhmi C Jain, 2011-03-11 The International Council on Systems Engineering INCOSE defines Systems Engineering as an interdisciplinary approach and means to enable the realization of successful systems Researchers are using intelligence based techniques to support the practices of systems engineering in an innovative way This research volume includes a selection of contributions by subject experts to design better systems

*Advances in Reasoning-Based Image Processing Intelligent Systems* Roumen Kountchev, Kazumi Nakamatsu, 2012-01-13 The book puts special stress on the contemporary

techniques for reasoning based image processing and analysis learning based image representation and advanced video coding intelligent image processing and analysis in medical vision systems similarity learning models for image reconstruction visual perception for mobile robot motion control simulation of human brain activity in the analysis of video sequences shape based invariant features extraction essential of paraconsistent neural networks creativity and intelligent representation in computational systems The book comprises 14 chapters Each chapter is a small monograph representing recent investigations of authors in the area The topics of the chapters cover wide scientific and application areas and complement each other very well The chapters content is based on fundamental theoretical presentations followed by experimental results and comparison with similar techniques The size of the chapters is well balanced which permits a thorough presentation of the investigated problems The authors are from universities and R some of the chapters are prepared by international teams The book will be of use for university and PhD students researchers and software developers working in the area of digital image and video processing and analysis

**Data Mining** Florin Gorunescu, 2011-03-10 The knowledge discovery process is as old as Homo sapiens Until some time ago this process was solely based on the natural personal computer provided by Mother Nature Fortunately in recent decades the problem has begun to be solved based on the development of the Data mining technology aided by the huge computational power of the artificial computers Digging intelligently in different large databases data mining aims to extract implicit previously unknown and potentially useful information from data since knowledge is power The goal of this book is to provide in a friendly way both theoretical concepts and especially practical techniques of this exciting field ready to be applied in real world situations Accordingly it is meant for all those who wish to learn how to explore and analysis of large quantities of data in order to discover the hidden nugget of information

*Modelling and Control for Intelligent Industrial Systems* Gerasimos Rigatos, 2011-02-02 Incorporating intelligence in industrial systems can help to increase productivity cut off production costs and to improve working conditions and safety in industrial environments This need has resulted in the rapid development of modeling and control methods for industrial systems and robots of fault detection and isolation methods for the prevention of critical situations in industrial work cells and production plants of optimization methods aiming at a more profitable functioning of industrial installations and robotic devices and of machine intelligence methods aiming at reducing human intervention in industrial systems operation To this end the book analyzes and extends some main directions of research in modeling and control for industrial systems These are i industrial robots ii mobile robots and autonomous vehicles iii adaptive and robust control of electromechanical systems iv filtering and stochastic estimation for multisensor fusion and sensorless control of industrial systems iv fault detection and isolation in robotic and industrial systems v optimization in industrial automation and robotic systems design and vi machine intelligence for robots autonomy The book will be a useful companion to engineers and researchers since it covers a wide spectrum of problems in the area of industrial systems Moreover the book is

addressed to undergraduate and post graduate students as an upper level course supplement of automatic control and robotics courses

*Data Mining: Foundations and Intelligent Paradigms* Dawn E. Holmes, Lakhmi C Jain, 2011-11-09 There are many invaluable books available on data mining theory and applications However in compiling a volume titled DATA MINING Foundations and Intelligent Paradigms Volume 1 Clustering Association and Classification we wish to introduce some of the latest developments to a broad audience of both specialists and non specialists in this field

Hybrid Random Fields Antonino Freno, Edmondo Trentin, 2011-04-11 This book presents an exciting new synthesis of directed and undirected discrete and continuous graphical models Combining elements of Bayesian networks and Markov random fields the newly introduced hybrid random fields are an interesting approach to get the best of both these worlds with an added promise of modularity and scalability The authors have written an enjoyable book rigorous in the treatment of the mathematical background but also enlivened by interesting and original historical and philosophical perspectives Manfred Jaeger Aalborg Universitet The book not only marks an effective direction of investigation with significant experimental advances but it is also and perhaps primarily a guide for the reader through an original trip in the space of probabilistic modeling While digesting the book one is enriched with a very open view of the field with full of stimulating connections Everyone specifically interested in Bayesian networks and Markov random fields should not miss it Marco Gori Universit degli Studi di Siena Graphical models are sometimes regarded incorrectly as an impractical approach to machine learning assuming that they only work well for low dimensional applications and discrete valued domains While guiding the reader through the major achievements of this research area in a technically detailed yet accessible way the book is concerned with the presentation and thorough mathematical and experimental investigation of a novel paradigm for probabilistic graphical modeling the hybrid random field This model subsumes and extends both Bayesian networks and Markov random fields Moreover it comes with well defined learning algorithms both for discrete and continuous valued domains which fit the needs of real world applications involving large scale high dimensional data

Towards Intelligent Modeling: Statistical Approximation Theory George A. Anastassiou, Oktay Duman, 2011-04-06 The main idea of statistical convergence is to demand convergence only for a majority of elements of a sequence This method of convergence has been investigated in many fundamental areas of mathematics such as measure theory approximation theory fuzzy logic theory summability theory and so on In this monograph we consider this concept in approximating a function by linear operators especially when the classical limit fails The results of this book not only cover the classical and statistical approximation theory but also are applied in the fuzzy logic via the fuzzy valued operators The authors in particular treat the important Korovkin approximation theory of positive linear operators in statistical and fuzzy sense They also present various statistical approximation theorems for some specific real and complex valued linear operators that are not positive This is the first monograph in Statistical Approximation Theory and Fuzziness The chapters are self contained and several advanced courses can be taught The research findings will be useful in

various applications including applied and computational mathematics stochastics engineering artificial intelligence vision and machine learning This monograph is directed to graduate students researchers practitioners and professors of all disciplines     Approximate Reasoning by Parts Lech Polkowski,2011-08-27 The monograph offers a view on Rough Mereology a tool for reasoning under uncertainty which goes back to Mereology formulated in terms of parts by Lesniewski and borrows from Fuzzy Set Theory and Rough Set Theory ideas of the containment to a degree The result is a theory based on the notion of a part to a degree One can invoke here a formula Rough Rough Mereology Mereology Fuzzy Set Theory Set Theory As with Mereology Rough Mereology finds important applications in problems of Spatial Reasoning illustrated in this monograph with examples from Behavioral Robotics Due to its involvement with concepts Rough Mereology offers new approaches to Granular Computing Classifier and Decision Synthesis Logics for Information Systems and are formulation of well known ideas of Neural Networks and Many Agent Systems All these approaches are discussed in this monograph To make the exposition self contained underlying notions of Set Theory Topology and Deductive and Reductive Reasoning with emphasis on Rough and Fuzzy Set Theories along with a thorough exposition of Mereology both in Lesniewski and Whitehead Leonard Goodman Clarke versions are discussed at length It is hoped that the monograph offers researchers in various areas of Artificial Intelligence a new tool to deal with analysis of relations among concepts     **Intelligent Systems:**

**Approximation by Artificial Neural Networks** George A. Anastassiou,2011-06-02 This brief monograph is the first one to deal exclusively with the quantitative approximation by artificial neural networks to the identity unit operator Here we study with rates the approximation properties of the right sigmoidal and hyperbolic tangent artificial neural network positive linear operators In particular we study the degree of approximation of these operators to the unit operator in the univariate and multivariate cases over bounded or unbounded domains This is given via inequalities and with the use of modulus of continuity of the involved function or its higher order derivative We examine the real and complex cases For the convenience of the reader the chapters of this book are written in a self contained style This treatise relies on author s last two years of related research work Advanced courses and seminars can be taught out of this brief book All necessary background and motivations are given per chapter A related list of references is given also per chapter The exposed results are expected to find applications in many areas of computer science and applied mathematics such as neural networks intelligent systems complexity theory learning theory vision and approximation theory etc As such this monograph is suitable for researchers graduate students and seminars of the above subjects also for all science libraries     Intelligent Open Learning Systems Przemysław Różewski,Emma Kusztna,Ryszard Tadeusiewicz,Oleg Zaikin,2011-07-29 In presented book the Intelligent Open Learning Systems IOLS are proposed described discussed and evaluated The IOLS is a system in which traditional methods of online teaching are enhanced through the use of artificial intelligence and cognitive science This is the main topic of the book It consists of ten chapters and is divided into three parts The first part concentrates on the Open Learning System OLS



analysis in particular the social and educational meanings of the OLS the new role of the teacher and the new requirements regarding the structure of didactic material Moreover the cybernetic model of student teacher and computer collaboration is presented the teaching learning process content and its main characteristics are discussed and the system based approach to the OLS design is proposed The second part is focused on the problem of knowledge modeling in the OLS based on the ontology and the competence approaches and leading to the learning object concept and competence management in open systems The third part describes applications of the OLS in the virtual laboratory for competence transfer the community built system of distance learning network and the AGH student city the real life application of the OLS concept The authors research findings presented in the book should be useful in various applications related to knowledge management e learning systems and information systems

### **Handbook of Research on Artificial Intelligence Techniques and Algorithms**

Vasant, Pandian, 2014-11-30 For decades optimization methods such as Fuzzy Logic Artificial Neural Networks Firefly Simulated annealing and Tabu search have been capable of handling and tackling a wide range of real world application problems in society and nature Analysts have turned to these problem solving techniques in the event during natural disasters and chaotic systems research The Handbook of Research on Artificial Intelligence Techniques and Algorithms highlights the cutting edge developments in this promising research area This premier reference work applies Meta heuristics Optimization MO Techniques to real world problems in a variety of fields including business logistics computer science engineering and government This work is particularly relevant to researchers scientists decision makers managers and practitioners

### Decision Making in Complex Systems

Marina V. Sokolova, Antonio Fernández Caballero, 2012-01-13 The study of complex systems attracts the attention of many researchers in diverse fields Complex systems are characterized by a high number of entities and a high degree of interactions One of the most important features is that they do not involve a central organizing authority but the various elements that make up the systems are self organized Moreover some complex systems possess an emergency priority climate change and sustainable development research studies of public health ecosystem habitats epidemiology and medicine among others Unfortunately a great number of today's overlapping approaches fail to meet the needs of decision makers when managing complex domains Indeed the design of complex systems often requires the integration of a number of artificial intelligence tools and techniques The problem can be viewed in terms of goals states and actions choosing the best action to move the system toward its desired state or behavior This is why agent based approaches are used to model complex systems The main objective of this book is to bring together existing methods for decision support systems creation within a coherent agent based framework and to provide an interdisciplinary and flexible methodology for modeling complex and systemic domains

### *Collaborative Assistive Robot for Mobility Enhancement (CARMEN)*

Cristina Urdiales, 2012-02-16 In nowadays aging society many people require mobility assistance Sometimes assistive devices need a certain degree of autonomy when users disabilities difficult manual control However

clinicians report that excessive assistance may lead to loss of residual skills and frustration Shared control focuses on deciding when users need help and providing it Collaborative control aims at giving just the right amount of help in a transparent seamless way This book presents the collaborative control paradigm User performance may be indicative of physical cognitive condition so it is used to decide how much help is needed Besides collaborative control integrates machine and user commands so that people contribute to self motion at all times Collaborative control was extensively tested for 3 years using a robotized wheelchair at a rehabilitation hospital in Rome with volunteer inpatients presenting different disabilities ranging from mild to severe We also present a taxonomy of common metrics for wheelchair navigation and tests are evaluated accordingly Obtained results are coherent both from a quantitative and qualitative point of view

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