

# Curriculum Vitae Dr Andrei Sleptchenko Personal Data

From its early beginnings in the fifties and sixties the field of neural networks has been steadily growing. The first wave was driven by a handful of pioneers who first discovered analogies between machines and biological systems in communication, control and computing. Technological constraints held back research considerably, but gradually computers have become less expensive and more accessible and software tools increasingly more powerful. Mathematical techniques, developed by computer-aware people, have steadily

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**accumulated and the second wave has begun.**

**Researchers from such diverse areas as psychology, mathematics, physics, neuroscience and engineering now work together in the neural networking field.**

**This Festschrift honors George Samuel Fishman, one of the founders of the field of computer simulation and a leader of the disciplines of operations research and the management sciences for the past few decades, on the occasion of his seventieth birthday. The papers in this volume span the theory, methodology, and application of computer simulation. The lead article is appropriately titled “George Fishman’s Professional Career.” In this article we discuss George’s contributions to operations research and the management sciences, with special**

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**emphasis on his role in the advancement of the field of simulation since the 1960s. We also include a brief personal biography together with comments by several individuals about the extraordinary effect that George has had on all his students, colleagues, and friends. The second article, titled “A Conversation with George Fishman,” is the transcript of an extended interview with George that we conducted in October 2007. In the article titled “Computer Intensive Statistical Model Building,” Russell Cheng studies resampling methods for building parsimonious multiple linear regression models so as to represent accurately the behavior of the dependent variable in terms of the smallest possible subset of explanatory (independent) variables. The author shows**

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**how bootstrap resampling can be used not only for rapid identification of good models but also for efficient comparison of competing models.**

**Logic Synthesis and Optimization presents up-to-date research information in a pedagogical form. The authors are recognized as the leading experts on the subject. The focus of the book is on logic minimization and includes such topics as two-level minimization, multi-level minimization, application of binary decision diagrams, delay optimization, asynchronous circuits, spectral method for logic design, field programmable gate array (FPGA) design, EXOR logic synthesis and technology mapping. Examples and illustrations are included so that each contribution can be read**

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**independently. Logic Synthesis and Optimization is an indispensable reference for academic researchers as well as professional CAD engineers.**

**This pioneering book addresses the latest research findings and application results on disruption management, which is the study of how to dynamically recover a predetermined operational plan when various disruptions prevent the original plan from being executed smoothly.**

**Hybrid Artificial Intelligent Systems**

**Harmony Search Algorithm**

**A Pure and Applied Approach**

**Parallel Problem Solving from Nature - PPSN X**

**Responsible Manufacturing**

**Proceedings of the 2019 Intelligent Systems Conference  
(IntelliSys) Volume 1  
Turnaround Management**

*A gentle introduction to genetic algorithms. Genetic algorithms revisited: mathematical foundations. Computer implementation of a genetic algorithm. Some applications of genetic algorithms. Advanced operators and techniques in genetic search. Introduction to genetics-based machine learning. Applications of genetics-based machine learning. A look back, a glance ahead. A review of combinatorics and elementary probability. Pascal with random number generation for fortran, basic, and cobol*

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*programmers. A simple genetic algorithm (SGA) in pascal. A simple classifier system(SCS) in pascal. Partition coefficient transforms for problem-coding analysis.*

*An update of the definitive annual reference source in the field of aluminum production and related light metals technologies, a great mix of materials science and practical, applied technology surrounding aluminum, bauxite, aluminum reduction, rolling, casting, and production.*

*Evolutionary computation techniques have attracted increasing attention in recent years for solving complex*

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*optimization problems. They are more robust than traditional methods based on formal logics or mathematical programming for many real world OR/MS problems. Evolutionary computation techniques can deal with complex optimization problems better than traditional optimization techniques. However, most papers on the application of evolutionary computation techniques to Operations Research /Management Science (OR/MS) problems have scattered around in different journals and conference proceedings. They also tend to focus on a very special and narrow topic. It is the right time that an archival book series publishes a special*



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*volume which - cludes critical reviews of the state-of-art of those evolutionary com- tation techniques which have been found particularly useful for OR/MS problems, and a collection of papers which represent the latest devel- ment in tackling various OR/MS problems by evolutionary computation techniques. This special volume of the book series on Evolutionary - timization aims at filling in this gap in the current literature. The special volume consists of invited papers written by leading - searchers in the field. All papers were peer reviewed by at least two recognised reviewers. The book covers the foundation as well as the practical side of evolutionary optimization.*

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*How can it be that in this age of sophisticated communications technology, our interpersonal communications are suffering? The answer is that few people take the time (or feel they have the time) to learn the skills needed for effective one-on-one communication. In fact, few are even aware that communication skills can be learned. Peter Urs Bender and Robert Tracz know differently. As they prove in this lively A to Z of key communication concepts, everyone can learn to communicate freely, persuasively, and with confidence. Secrets of Face-to-Face Communication is packed with helpful tips, illustrative anecdotes, and proven systems*

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*that, when applied, will improve your business and personal relationships alike. Whether you are an entrepreneur looking for more successful interactions with clients, a manager trying to deal with difficult people, or an employee seeking more productive relationships with your boss or coworkers, you'll find what you need in *Secrets of Face-to-Face Communication*. So stop wasting time on avoidable misunderstandings and bad feelings -- and start communicating with power! Book jacket.*

*Evolutionary Multi-Criterion Optimization*

*Genetic Algorithms in Search, Optimization, and Machine*

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*Learning*

*The Metalog Method*

*Engineering Principles of Combat Modeling and Distributed Simulation*

*Aluminium Electrolysis*

*Modelling and Analysis*

*Fundamentals of Machine Learning for Predictive Data Analytics, second edition*

Consisting of two parts, this book presents papers describing publicly available stochastic programming systems that are operational. It presents a diverse collection

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of application papers in areas such as production, supply chain and scheduling, gaming, environmental and pollution control, financial modeling, telecommunications, and electricity.

Responsible Manufacturing has become an obligation to the environment and to society itself, enforced primarily by customer perspective and governmental regulations on environmental issues. This is mainly driven by the escalating deterioration of the environment, such as diminishing raw material resources, overflowing waste sites, and increasing levels of pollution. Responsible

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Manufacturing related issues have found a large following in industry and academia, which aim to find solutions to the problems that arise in this newly emerged research area. Problems are widespread, including the ones related to the lifecycle of products, disassembly, material recovery, remanufacturing, and pollution prevention. Organized into sixteen chapters, this book provides a foundation for academicians and practitioners, and addresses several important issues faced by strategic, tactical, and operation planners of Responsible Manufacturing. Using efficient

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models in a variety of decision-making situations, it provides easy-to-use mathematical and/or simulation modeling-based solution methodologies for the majority of the issues. Features Addresses a variety of state-of-the-art issues in Responsible Manufacturing Highlights how popular industrial engineering and operations research techniques can be effectively exploited to find the most effective solutions to problems Presents how a specific issue can be approached or modeled in a given decision-making situation Covers strategic, tactical, and operational systems issues

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Provides a foundation for academicians and practitioners interested in building bodies of knowledge in this new and fast-growing area

This book constitutes the refereed proceedings of the 10th International Conference on Parallel Problem Solving from Nature, PPSN 2008, held in Dortmund, Germany, in September 2008. The 114 revised full papers presented were carefully reviewed and selected from 206 submissions. The conference covers a wide range of topics, such as evolutionary computation, quantum computation, molecular computation, neural



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computation, artificial life, swarm intelligence, artificial ant systems, artificial immune systems, self-organizing systems, emergent behaviors, and applications to real-world problems. The paper are organized in topical sections on formal theory, new techniques, experimental analysis, multiobjective optimization, hybrid methods, and applications.

Digital government is a new frontier of the development of electronic commerce.

Electronic Government Strategies and Implementation is a timely piece to address the issues involved in strategically

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implementing digital government, covering the various aspects of digital government strategic issues and implementations from the perspectives of both developed and developing countries. This book combines e-government implementation experiences from both developed and developing countries, and is useful to researchers and practitioners in the area as well as instructors teaching courses related to digital government and/or electronic commerce.

10th International Conference, HAIS 2015, Bilbao, Spain, June 22-24, 2015, Proceedings Risk-Return Analysis, Volume 2: The Theory

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and Practice of Rational Investing  
Secrets of Face to Face Communication  
ARIS — Business Process Modeling  
Light Metals 2012

39th SGA International Conference on  
Artificial Intelligence, AI 2019, Cambridge,  
UK, December 17-19, 2019, Proceedings  
Artificial Intelligence XXXVI

Tobias Voss shows you how to turn games  
into high-impact interventions and how  
to enrich Experience-Oriented Learning  
methods with systemic thinking and the  
latest research into how the brain

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learns. This insightful book is a treasure trove for all lovers of real learning and a must-have for METALOG® training tools enthusiasts.

The Harmony Search Algorithm (HSA) is one of the most well-known techniques in the field of soft computing, an important paradigm in the science and engineering community. This volume, the proceedings of the 2nd International Conference on Harmony Search Algorithm 2015 (ICHSA 2015), brings together

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contributions describing the latest developments in the field of soft computing with a special focus on HSA techniques. It includes coverage of new methods that have potentially immense application in various fields.

Contributed articles cover aspects of the following topics related to the Harmony Search Algorithm: analytical studies; improved, hybrid and multi-objective variants; parameter tuning; and large-scale applications. The book

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also contains papers discussing recent advances on the following topics: genetic algorithms; evolutionary strategies; the firefly algorithm and cuckoo search; particle swarm optimization and ant colony optimization; simulated annealing; and local search techniques. This book offers a valuable snapshot of the current status of the Harmony Search Algorithm and related techniques, and will be a useful reference for

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practising researchers and advanced students in computer science and engineering.

This two-volume set LNCS 11101 and 11102 constitutes the refereed proceedings of the 15th International Conference on Parallel Problem Solving from Nature, PPSN 2018, held in Coimbra, Portugal, in September 2018. The 79 revised full papers were carefully reviewed and selected from 205 submissions. The papers cover a

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wide range of topics in natural computing including evolutionary computation, artificial neural networks, artificial life, swarm intelligence, artificial immune systems, self-organizing systems, emergent behavior, molecular computing, evolutionary robotics, evolvable hardware, parallel implementations and applications to real-world problems. The papers are organized in the following topical sections: numerical



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optimization; combinatorial optimization; genetic programming; multi-objective optimization; parallel and distributed frameworks; runtime analysis and approximation results; fitness landscape modeling and analysis; algorithm configuration, selection, and benchmarking; machine learning and evolutionary algorithms; and applications. Also included are the descriptions of 23 tutorials and 6 workshops which took place in the

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framework of PPSN XV.

This book constitutes the refereed proceedings of the 4th International Conference on Evolutionary Multi-Criterion Optimization, EMO 2007, held in Matsushima, Japan in March 2007. The 65 revised full papers presented together with 4 invited papers are organized in topical sections on algorithm design, algorithm improvements, alternative methods, applications, engineering design, many

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objectives, objective handling, and performance assessments.

ICANN '94

Modeling Embedded Systems and SoC's

Issues Pertaining to Sustainability

Planning and Control of Maintenance Systems

Biomedical Engineering Fundamentals

Disruption Management

Logic Synthesis and Optimization

This book offers a comprehensive review of multilabel techniques widely used to classify and label texts, pictures,

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videos and music in the Internet. A deep review of the specialized literature on the field includes the available software needed to work with this kind of data. It provides the user with the software tools needed to deal with multilabel data, as well as step by step instruction on how to use them. The main topics covered are:

- The special characteristics of multi-labeled data and the metrics available to measure them.
- The importance of taking advantage of label correlations to improve the results.
- The different approaches followed to face multi-label classification.
- The preprocessing techniques applicable to multi-label datasets.
- The available software tools to work with multi-label data.

This book is beneficial for professionals and researchers in a variety of fields because of the wide range

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of potential applications for multilabel classification. Besides its multiple applications to classify different types of online information, it is also useful in many other areas, such as genomics and biology. No previous knowledge about the subject is required. The book introduces all the needed concepts to understand multilabel data characterization, treatment and evaluation.

This book presents the hardware implementation of control algorithms represented by graph-schemes of algorithm. It includes new methods of logic synthesis and optimization for logic circuits of Mealy and Moore FSMs oriented on both ASIC and FPLD.

The book presents a remarkable collection of chapters covering a wide range of topics in the areas of intelligent

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systems and artificial intelligence, and their real-world applications. It gathers the proceedings of the Intelligent Systems Conference 2019, which attracted a total of 546 submissions from pioneering researchers, scientists, industrial engineers, and students from all around the world. These submissions underwent a double-blind peer-review process, after which 190 were selected for inclusion in these proceedings. As intelligent systems continue to replace and sometimes outperform human intelligence in decision-making processes, they have made it possible to tackle a host of problems more effectively. This branching out of computational intelligence in several directions and use of intelligent systems in everyday applications have created the need for an international conference as a venue for reporting

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on the latest innovations and trends. This book collects both theory and application based chapters on virtually all aspects of artificial intelligence; presenting state-of-the-art intelligent methods and techniques for solving real-world problems, along with a vision for future research, it represents a unique and valuable asset.

This Open Access book introduces readers to many new techniques for enhancing and optimizing reliability in embedded systems, which have emerged particularly within the last five years. This book introduces the most prominent reliability concerns from today ' s points of view and roughly recapitulates the progress in the community so far. Unlike other books that focus on a single abstraction level such circuit level or system level alone, the focus of this book is to

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deal with the different reliability challenges across different levels starting from the physical level all the way to the system level (cross-layer approaches). The book aims at demonstrating how new hardware/software co-design solution can be proposed to effectively mitigate reliability degradation such as transistor aging, processor variation, temperature effects, soft errors, etc. Provides readers with latest insights into novel, cross-layer methods and models with respect to dependability of embedded systems; Describes cross-layer approaches that can leverage reliability through techniques that are pro-actively designed with respect to techniques at other layers; Explains run-time adaptation and concepts/means of self-organization, in order to achieve error resiliency in complex, future many core



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systems.

Algorithms, Worked Examples, and Case Studies

Concurrency and Time in Models of Computation

Fundamentals of the Hall-Hérault Process

8th International Conference, BIOMA 2018, Paris, France,

May 16-18, 2018, Proceedings

Intelligent Systems and Applications

How to Communicate with Power

Dependable Embedded Systems

**"This book will be of interest to researchers and practitioners in the field of logistics, supply chain management, transportation, enterprise integration, and information technology."--BOOK JACKET.**

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**Distributed decision making (DDM) has become of increasing importance in quantitative decision analysis. In applications like supply chain management, service operations, or managerial accounting, DDM has led to a paradigm shift. The book provides a unified approach to such seemingly diverse fields as multi-level stochastic programming, hierarchical production planning, principal agent theory, negotiations or contract theory. Different settings like multi-level one-person decision problems, multi-person antagonistic planning, and leadership situations are covered. Numerous examples and real-life planning cases illustrate the concepts. The new edition has been considerably expanded by additional chapters on**

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**supply chain management, service operations and multi-agent systems.**

**ARIS (Architecture of Integrated Information Systems) is a unique and internationally renowned method for optimizing business processes and implementing application systems. This book enhances the proven ARIS concept by describing product flows and explaining how to classify modern software concepts. The importance of the link between business process organization and strategic management is stressed. Bridging the gap between the different approaches in business theory and information technology, the ARIS concept provides a full-circle approach-from the organizational design of business**

**processes to IT implementation. With an emphasis on SAP R/3, real-world examples of standard software solutions illustrate these business process frameworks.**

**Many machine learning tasks involve solving complex optimization problems, such as working on non-differentiable, non-continuous, and non-unique objective functions; in some cases it can prove difficult to even define an explicit objective function. Evolutionary learning applies evolutionary algorithms to address optimization problems in machine learning, and has yielded encouraging outcomes in many applications. However, due to the heuristic nature of evolutionary optimization, most outcomes to date have been empirical**

**and lack theoretical support. This shortcoming has kept evolutionary learning from being well received in the machine learning community, which favors solid theoretical approaches. Recently there have been considerable efforts to address this issue. This book presents a range of those efforts, divided into four parts. Part I briefly introduces readers to evolutionary learning and provides some preliminaries, while Part II presents general theoretical tools for the analysis of running time and approximation performance in evolutionary algorithms. Based on these general tools, Part III presents a number of theoretical findings on major factors in evolutionary optimization, such as recombination,**

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**representation, inaccurate fitness evaluation, and population. In closing, Part IV addresses the development of evolutionary learning algorithms with provable theoretical guarantees for several representative tasks, in which evolutionary learning offers excellent performance.**

**Aluminium Smelter Technology**

**Advancing the Frontiers of Simulation**

**Evolutionary Optimization**

**ARIS - Business Process Frameworks**

**An Introduction to Recent Advances**

**Scalable Enterprise Systems**

**Proceedings of the 2nd International Conference on  
Harmony Search Algorithm (ICHSA2015)**

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**This book describes in detail how ARIS methods model and identify business processes by means of the UML (Unified Modeling Language), leading to an information model that serves as the basis for a systematic and intelligent development of application systems. Multiple real-world examples using SAP R/3 illustrate aspects of business process modeling including methods of knowledge management, implementation of workflow systems and standard software solutions, and the deployment of ARIS methods.**

**Analyzing maintenance as an integrated system with objectives, strategies and processes that need to be planned, designed, engineered, and controlled using statistical and optimization techniques, the theme of this book is the strategic holistic system approach for maintenance. This approach enables maintenance**

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**decision makers to view maintenance as a provider of a competitive edge not a necessary evil. Encompassing maintenance systems; maintenance strategic and capacity planning, planned and preventive maintenance, work measurements and standards, material (spares) control, maintenance operations and control, planning and scheduling, maintenance quality, training, and others, this book gives readers an understanding of the relevant methodology and how to apply it to real-world problems in industry. Each chapter includes a number exercises and is suitable as a textbook or a reference for a professionals and practitioners whilst being of interest to industrial engineering, mechanical engineering, electrical engineering, and industrial management students. It can also be used as a textbook for short courses on maintenance**



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**in industry. This text is the second edition of the book, which has four new chapters added and three chapters are revised substantially to reflect development in maintenance since the publication of the first edition. The new chapters cover reliability centered maintenance, total productive maintenance, e-maintenance and maintenance performance, productivity and continuous improvement.**

**Manufacturing and process plants must be regularly closed down for planned maintenance operations. This may entail the complete shutdown and re-start of large-scale serial and batch operations and must be performed in as short a period of time as is cost-effective. This is the process of turnaround, and as the processes are often high value and the maintenance operations intensive, complex and costly, it is vital that it be planned and**

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**carried out effectively. Tom Lenahan is an acknowledged expert in this field, who has worked and consulted internationally, and his book will show the maintenance manager or project leader how to get the job done correctly. This will include ensuring that lost production value (including sourcing replacement capacity) is balanced against intensive maintenance costs, as well as numerous other factors that may not be obvious to the first-time shutdown manager. The book draws upon his many years of experience with ICI, and has been written in conjunction with Eutech Engineering Services Ltd. Foreword by Anthony Kelly, author of Maintenance Strategy and Maintenance Organization and Systems**

**This edited volume is targeted at presenting the latest state-of-the-art methodologies in "Hybrid Evolutionary Algorithms".**

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**The chapters deal with the theoretical and methodological aspects, as well as various applications to many real world problems from science, technology, business or commerce. Overall, the book has 14 chapters including an introductory chapter giving the fundamental definitions and some important research challenges. The contributions were selected on the basis of fundamental ideas/concepts rather than the thoroughness of techniques deployed.**

**Proceedings of the International Conference on Artificial Neural Networks Sorrento, Italy, 26–29 May 1994 Volume 1, Parts 1 and 2**

**Transform Your Training**

**Parallel Problem Solving from Nature – PPSN XV**

**Evolutionary Learning: Advances in Theories and Algorithms**

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## **Logic Synthesis for FSM-Based Control Units**

### **Problem Analysis, Metrics and Techniques**

#### **A Festschrift in Honor of George Samuel Fishman**

The Nobel Prize-winning Father of Modern Portfolio Theory returns with new insights on his classic work to help you build a lasting portfolio today Contemporary investing as we know it would not exist without these two words: “Portfolio selection.” Though it may not seem revolutionary today, the concept of examining and purchasing many diverse stocks—creating a portfolio—changed the

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face of finance when Harry M. Markowitz devised the idea in 1952. In the past six decades, Markowitz has risen to international acclaim as the father of Modern Portfolio Theory (MPT), with his evaluation of the impact of asset risk, diversification, and correlation in the risk-return tradeoff. In defending the idea that portfolio risk was essential to strategic asset growth, he showed the world how to invest for the long-run in the face of any economy. In Risk Return Analysis, this groundbreaking four-book

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series, the legendary economist and Nobel Laureate returns to revisit his masterpiece theory, discuss its developments, and prove its vitality in the ever-changing global economy. Volume 2 picks up where the first volume left off, with Markowitz's personal reflections and current strategies. In this volume, Markowitz focuses on the relationship between single-period choices—now—and longer run goals. He discusses dynamic systems and models, the asset allocation “glide-path,” inter-generational

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investment needs, and financial decision support systems. Written with both the academic and the practitioner in mind, this richly illustrated volume provides investors, economists, and financial advisors with a refined look at MPT, highlighting the rational decision-making and probability beliefs that are essential to creating and maintaining a successful portfolio today.

This volume constitutes the proceedings of the 10th International Conference on Hybrid Artificial Intelligent Systems,

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H AIS 2015, held Bilbao, Spain, June 2014. The 60 papers published in this volume were carefully reviewed and selected from 190 submissions. They are organized in topical sections such as data mining and knowledge discovery; video and image analysis; bio-inspired models and evolutionary computation; learning algorithms; hybrid intelligent systems for data mining and applications; classification and cluster analysis, H AIS applications.

Known as the bible of biomedical



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engineering, The Biomedical Engineering Handbook, Fourth Edition, sets the standard against which all other references of this nature are measured. As such, it has served as a major resource for both skilled professionals and novices to biomedical engineering. Biomedical Engineering Fundamentals, the first volume of the handbook, presents material from respected scientists with diverse backgrounds in physiological systems, biomechanics, biomaterials, bioelectric phenomena, and neuroengineering. More than

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three dozen specific topics are examined, including cardiac biomechanics, the mechanics of blood vessels, cochlear mechanics, biodegradable biomaterials, soft tissue replacements, cellular biomechanics, neural engineering, electrical stimulation for paraplegia, and visual prostheses. The material is presented in a systematic manner and has been updated to reflect the latest applications and research findings. This book constitutes the proceedings of the 39th SGAI International Conference on

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Innovative Techniques and Applications of Artificial Intelligence, AI 2019, held in Cambridge, UK, in December 2019. The 29 full papers and 14 short papers presented in this volume were carefully reviewed and selected from 49 submissions. The volume includes technical papers presenting new and innovative developments in the field as well as application papers presenting innovative applications of AI techniques in a number of subject domains. The papers are organized in the following topical sections: machine learning; knowledge

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discovery and data mining; agents, knowledge acquisition and ontologies; medical applications; applications of evolutionary algorithms; machine learning for time series data; applications of machine learning; and knowledge acquisition.

10th International Conference Dortmund, Germany, September 13-17, 2008 Proceedings Bioinspired Optimization Methods and Their Applications

Applications of Stochastic Programming Framework, Models and Applications

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Electronic Government Strategies and  
Implementation

Multilabel Classification

Synthesis & Optimizatn Of Dig. Circuits

*This book constitutes the thoroughly refereed revised selected papers of the 10th International Conference on Bioinspired Optimization Models and Their Applications, BIOMA 2018, held in Paris, France, in May 2018. The 27 revised full papers were selected from 53 submissions and present papers in all aspects of bioinspired*

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*optimization research such as new algorithmic developments, high-impact applications, new research challenges, theoretical contributions, implementation issues, and experimental studies.*

*Light Metals 2009 presents the most up-to-date information on the state of primary aluminum science and technology. It's a great mix of practical applied technology and hard science, which is of invaluable benefit to the global aluminum industry as it strives to cut costs and increase profitability. Areas*

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*covered include: Alumina and Bauxite  
Aluminum Reduction Technology Cast Shop  
for Aluminum Production Electrode  
Technology for Aluminum Production  
Aluminum Hot Rolling/Aluminum Cold Rolling  
and Strip Process In the light metals industry,  
aluminum will always have serious  
competition from other materials. Held at the  
TMS Annual Meeting & Exhibition each year,  
the Light Metals series has become the  
definitive annual reference source in the field  
of aluminum production and related light*

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*metals technologies.*

*The second edition of a comprehensive introduction to machine learning approaches used in predictive data analytics, covering both theory and practice. Machine learning is often used to build predictive models by extracting patterns from large datasets. These models are used in predictive data analytics applications including price prediction, risk assessment, predicting customer behavior, and document classification. This introductory textbook*



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*offers a detailed and focused treatment of the most important machine learning approaches used in predictive data analytics, covering both theoretical concepts and practical applications. Technical and mathematical material is augmented with explanatory worked examples, and case studies illustrate the application of these models in the broader business context. This second edition covers recent developments in machine learning, especially in a new chapter on deep learning, and two new chapters that go beyond*

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*predictive analytics to cover unsupervised learning and reinforcement learning.*

*System level design is a critical component for the methods to develop designs more productively. But there are a number of challenges in implementing system level modeling. This book addresses that need by developing organizing principles for understanding, assessing, and comparing the different models of computation in system level modeling.*

*Light Metals 2009*

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*Distributed Decision Making*  
*15th International Conference, Coimbra,*  
*Portugal, September 8-12, 2018, Proceedings*  
*4th International Conference, EMO 2007,*  
*Matsushima, Japan, March 5-8, 2007,*  
*Proceedings*  
*Hybrid Evolutionary Algorithms*  
Chapters 1-15 written by Andreas Tolk; chapters 16-32  
written by various authors.