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Artificial Intelligence
Through Search Springer
Science & Business
Media
This six-volume-set
(CCIS 231, 232, 233,



234, 235, 236) constitutes the refereed proceedings of the International Conference on Computing, Information and Control, ICCIC 2011, held in Wuhan, China, in September 2011. The papers are organized in two volumes on Innovative Computing and Information (CCIS 231 and 232), two volumes on Computing and Intelligent Systems (CCIS 233 and 234), and in two volumes on Information and Management Engineering (CCIS 235 and 236).

How to Avoid a Climate Disaster
Springer Science & Business Media
This book is a compilation of high quality papers focussing on five major areas of active development in the wide field of differential equations: dynamical systems, infinite dimensions, global attractors and stability, computational aspects, and applications. It is a valuable reference for researchers in diverse disciplines, ranging from mathematics through physics, engineering, chemistry, nonlinear science to the life sciences
Solution Focused Group

Therapy Springer
The 18th European Symposium on Computer Aided Process Engineering contains papers presented at the 18th European Symposium of Computer Aided Process Engineering (ESCAPE 18) held in Lyon, France, from 1-4 June 2008. The ESCAPE series brings the latest innovations and achievements by leading professionals from the industrial and academic communities. The series serves as a forum for engineers, scientists, researchers, managers and students from academia and industry to:- present new

computer aided methods, algorithms, techniques related to process and product engineering,- discuss innovative concepts, new challenges, needs and trends in the area of CAPE.This research area bridges fundamental sciences (physics, chemistry, thermodynamics, applied mathematics and computer sciences) with the various aspects of process and product engineering.The special theme for ESCAPE-18 is CAPE for the Users! CAPE systems are to be put in the hands of end users who need functionality and assistance beyond the scientific and technological capacities which

are at the core of the systems. The four main topics are:- off-line systems for synthesis and design,- on-line systems for control and operation,- computational and numerical solutions strategies,- integrated and multi-scale modelling and simulation,Two general topics address the impact of CAPE tools and methods on Society and Education. * CD-ROM that accompanies the book and contributions* International in scope with guest speeches and keynote talks from leaders in science and industry* Presents papers covering the latest research, key top areas and developments in Computer

Aided Process Engineering
Contemporary Issues in Exploratory Data Mining in the Behavioral Sciences
World Scientific
Artificial intelligence is a constantly advancing field that requires models in order to accurately create functional systems. The use of natural acumen to create artificial intelligence creates a field of research in which the natural and the artificial meet in a new and innovative

way. Critical Developments and Applications of Swarm Intelligence is a critical academic publication that examines developing research, technologies, and function regarding natural and artificial acumen specifically, in regards to self-organized systems. Featuring coverage on a broad range of topics such as evolutionary algorithms, optimization techniques, and computational comparison, this book

is geared toward academicians, students, researchers, and engineers seeking relevant and current research on the progressive research based on the implementation of swarm intelligence in self-organized systems. *Nature Inspired Cooperative Strategies for Optimization (NICSO 2007)* Springer Nature Group testing was first proposed for blood tests, but soon found its way to many industrial applications. Combinatorial group testing studies the combinatorial

aspect of the problem and is particularly related to many topics in combinatorics, computer science and operations research. Recently, the idea of combinatorial group testing has been applied to experimental designs, coding, multiaccess computer communication, clone library screening and other fields. This book is the first attempt to cover the theory and applications of combinatorial group testing in one place. Contents: Introduction General Algorithms Algorithms for Special Cases Nonadaptive Algorithms and Binary

Superimposed
CodesMultiaccess Channels
and ExtensionsSome Other
Group Testing
ModelsCompetitive Group
TestingUnreliable Tests,
Optimal Search in One
VariableUnbounded
SearchGroup Testing on
GraphsMembership
ProblemsComplexity
IssuesIndex Readership:
Researchers in applied
mathematics, operations
research, computer science,
genetics statistics and public
health. keywords:Group
Testing;Competitive
Algorithm;Nonadaptive

Algorithm;Superimposed
Code;Multiaccess
Channel;Membership
Problem;Search on
Graph;Unreliable
Test;Complexity;Chip Game
“The book under review for the
first time collects all theory and
applications about
combinatorial group testing in
one place. The presentation of
the material is well organized,
the material is illustrated by
many examples. This book may
not only serve as a source and
reference book, but is also
attractive to students since it
treats interesting ‘real life’
problems.” Monatshefte Für

Mathematik
18th European Symposium on
Computer Aided Process
Engineering Springer Nature
This volume critically evaluates
more than a century of empirical
research on the effectiveness of
small, task-performing groups,
and offers a fresh look at the costs
and benefits of collaborative
work arrangements. The central
question taken up by this book is
whether -- and under what
conditions -- interaction among
group members leads to better
performance than would
otherwise be achieved simply by
combining the separate efforts of
an equal number of people who
work independently. This
question is considered with

respect to a range of tasks (idea-generation, problem solving, judgment, and decision-making) and from several different process perspectives (learning and memory, motivation, and member diversity). As a framework for assessing the empirical literature, the book introduces the concept of 'synergy.' Synergy refers to an objective gain in performance that is attributable to group interaction. Further, it distinguishes between weak and strong synergy, which are performance gains of different magnitude. The book highlights the currently available empirical evidence for both weak and strong synergy, identifies the conditions that seem necessary to produce each, and suggests where the

search for synergy might best be directed in the future. The book is at once a high-level introduction to the field, a review of the field's history, and a scholarly critique of the current state-of-the-art. As such, it is essential reading for graduate students, advanced undergraduate students, and researchers interested in group dynamics generally -- and small group performance in particular. Hybrid Metaheuristics IGI Global In our managed care era, group therapy, long the domain of traditional psychodynamically oriented therapists, has emerged as the best option for millions of Americans. However, the process can be frustratingly slow, and studies show that patients actually

feel worse after months of group treatment than when they began. Can and should "the group" speed a person's progress? Now, in this "must have" book, marriage and family therapist Linda Metcalf persuasively argues that the collaborative nature of group therapy actually lends itself to time-limited treatment. She combines the best elements of group work and the popular solution focused brief therapy approach to create new opportunities for practitioners and patients alike. Among the topics covered in this valuable guide are: how to learn the model how to design a group and recruit members how to identify exceptions to a group member's

self-destructive behaviors and thoughts how to help members focus on their successes rather than their failures how to keep the group solution focused when therapists or members fall back into old patterns This unique resource also includes case examples and session transcripts to follow, together with reproducible forms that can be used as they are or tailored to a therapist's needs. Solution Focused Group Therapy is an up-to-the-minute, highly accessible resource for therapists of any orientation. Managed care companies in particular will welcome this model, which deals so effectively and economically with today's biggest problems, including eating

disorders, chemical dependencies, grief, depression, anxiety, and sexual abuse.

Team Up! Find a Better Job Faster with a Job Search

Work Team Psychology Press
You already know that job hunting can be difficult. It can be tough in a good job market. In a bad job market, it can be brutal. You get rejection after rejection. You're constantly faced with the Black Hole of job hunting: You complete applications, post resumes and make contacts, but get no response at all. It can be hard to keep going, and many job hunters have periods of doing

far too little - and even slowing down just when they need to speed up. And sometimes it's hard to know what kind of effort to make. Should you make more phone calls? Use more social networking sites? Find more job boards? Make more contacts? A professional career coach could assist you with all of this. However, many job hunters are unemployed and not in a position to hire a coach. **A PROVEN SYSTEM** But now, there's another solution. Rather than hunker down alone in a home office, you can do your job hunting as part of a Job Search Work Team. Team

members do not need to be experts, since they're using a proven system - one that's been successfully used by a 300-office global career services company for over 20 years. Job Search Work Teams have helped thousands of job hunters find great new jobs faster. Team Up! shows you the university research that explains why and how these teams are so successful. And the book tells you exactly what to do to join, start or lead one of these teams. Teams have been shown to shorten job searches by 20%. That could cut a five-month search to four months,

and save you a full month's salary. **ENDORSED BY EXPERIENCED CAREER PROFESSIONALS** Career professionals who have used Job Search Work Teams are enthusiastic about their value for job hunters. On the first two pages of Team Up!, you'll see endorsements from people with a combined total of 200 years experience as professional career coaches. On the back cover of the book, you'll see endorsements from leaders of church, synagogue and nonprofit programs that use these teams. In that kind of program, teams are usually led

by the job hunters themselves. The teams have proven successful when led by professional leaders, volunteer workers, or team members. But however they're led, it's important that all team members understand exactly how they work and what to do in meetings to help make every member's search more effective, more comfortable and faster. Team Up! explains the whole thing, step-by-step, telling you exactly how you can start, join or lead one of these teams. **JOB SEARCH WORK TEAMS OFFER: *** A** comfortable, supportive weekly

meeting that's focused on making every team member's job search more effective this week than it was last week. *** Networking assistance, since every member has two dozen eyes and ears on the lookout for job leads and job market information -- not just two. *** An advisory group to answer questions, enumerate options, and provide objective advice. *** A simple progress measurement system that allows job hunters to answer three key questions: (1) "Before you start getting job interviews, how do you know whether you're making progress? (2)

How much progress did you make this week? (3) Which of your efforts are producing the progress? TEAM UP! TELLS YOU: +++ How to join an existing Job Search Work Team. +++ How to start your own team if there isn't one near you. +++ How to ensure that every weekly team meeting is safe, comfortable and highly productive for everyone in the room. +++ How to use teams in church, synagogue or community job search assistance programs. +++ How to make your job search more effective - even if you decide not to join a Job Search Work

Team. The book is written for career professionals as well as job hunters. It includes a message for career coaches and a complete manual/workbook. It is not available as an e-book because it is in 8 1/2 by 11 inch format and includes numerous full- and two-page graphics that cannot be viewed on those device
In Search of Synergy in Small Group Performance Gulf Professional Publishing
Based on extensive research, The Tidal Model charts the development of this model of care, outlining its theoretical basis and including clinical examples to show the benefits of

encouraging the client's greater involvement in their treatment.

Harmony Search and Nature Inspired Optimization

Algorithms Springer

This book includes a selection of refereed papers presented at the "Annual International Conference of the German Operations Research Society (OR2016)," which took place at the Helmut-Schmidt-Universität / Universität der Bundeswehr Hamburg, Germany, Aug. 30 - Sept. 2, 2016. Over 700 practitioners and academics from

mathematics, computer science, business/economics, and related fields attended the conference. The scientific program included around 475 presentations on the theme Analytical Decision Making, focusing on the process of researching complex decision problems and devising effective solution methods towards better decisions. The book presents papers discussing classical mathematical optimization, statistics and simulation techniques. Such approaches are complemented by

computer science methods and tools for the processing of data and the design and implementation of information systems. The book also examines recent advances in information technology, which allow big data volumes to be treated and enable real-time predictive and prescriptive business analytics to drive decisions and actions. Further, it includes problems modeled and treated under consideration of uncertainty, risk management, behavioral issues, and strategic decision

situations.

The New Rules of Work

Plunkett Research, Ltd.

Biological and natural processes have been a continuous source of inspiration for the sciences and engineering. For instance, the work of Wiener in cybernetics was influenced by feedback control processes observable in biological systems; McCulloch and Pitts description of the artificial neuron was instigated by biological observations of neural mechanisms; the idea of survival of the fittest inspired the field of evolutionary algorithms and similarly,

artificial immune systems, ant colony optimisation, automated self-assembling programming, membrane computing, etc. also have their roots in natural phenomena. The second International Workshop on Nature Inspired Cooperative Strategies for Optimization (NICSO), was held in Acireale, Italy, during November 8-10, 2007. The aim for NICSO 2007 was to provide a forum where the latest ideas and state of the art research related to cooperative strategies for problem solving arising from Nature could be discussed. The contributions collected in this

book were strictly peer reviewed by at least three members of the international programme committee, to whom we are indebted for their support and assistance. The topics covered by the contributions include several well established nature inspired techniques like Genetic Algorithms, Ant Colonies, Artificial Immune Systems, Evolutionary Robotics, Evolvable Systems, Membrane Computing, Quantum Computing, Software Self Assembly, Swarm Intelligence, etc.

Collaborative Web Search

Springer

Today, Web search is treated as a solitary experience.

Web browsers and search engines are typically designed to support a single user, working alone.

However, collaboration on information-seeking tasks is actually commonplace.

Students work together to complete homework assignments, friends seek information about joint entertainment opportunities, family members jointly plan vacation travel, and colleagues jointly conduct

research for their projects. As improved networking technologies and the rise of social media simplify the process of remote collaboration, and large, novel display form-factors simplify the process of co-located group work, researchers have begun to explore ways to facilitate collaboration on search tasks. This lecture investigates the who, what, where, when and why of collaborative search, and gives insight in how emerging solutions can address collaborators' needs.

Table of Contents:

Introduction / Who? / What? / Where? / When? / Why? / Conclusion: How?

Small Groups Turtleback
"This book presents a wide range of issues and challenges related to business process reengineering technologies and systems through the use of case studies"--Provided by publisher.

Combinatorial Group Testing and Its Applications
Jossey-Bass

This is an important textbook on artificial

intelligence that uses the unifying thread of search to bring together most of the major techniques used in symbolic artificial intelligence. The authors, aware of the pitfalls of being too general or too academic, have taken a practical approach in that they include program code to illustrate their ideas. Furthermore, code is offered in both POP-11 and Prolog, thereby giving a dual perspective, highlighting the merits of these languages. Each chapter covers one technique

and divides up into three sections: a section which introduces the technique (and its usual applications) and suggests how it can be understood as a variant/generalisation of search; a section which developed a 'low'-level (POP-11) implementation; a section which develops a high-level (Prolog) implementation of the technique. The authors also include useful notes on alternative treatments to the material, further reading and exercises. As a practical book

it will be welcomed by a wide audience including, those already experienced in AI, students with some background in programming who are taking an introductory course in AI, and lecturers looking for a precise, professional and practical text book to use in their AI courses. About the authors: Dr Christopher Thornton has a BA in Economics, an Sc in Computer Science and a DPhil in Artificial Intelligence. Formerly a lecturer in the Department of

AI at the University of Edinburgh, he is now a lecturer in AI in the School of Cognitive and Computing Sciences at the University of Sussex. Professor Benedict du Boulay has a BSc in Physics and a PhD in Artificial Intelligence. Previously a lecturer in the Department of Computing Science at the University of Aberdeen he is currently Professor of Artificial Intelligence, also in the School of Cognitive and Computing Sciences, University of Sussex.

Engineering Decision Making and Risk Management IGI

Global

This book presents carefully selected contributions devoted to the modern perspective of AI research and innovation. This collection covers several areas of applications and motivates new research directions. The theme across all chapters combines several domains of AI research, Computational Intelligence and Machine Intelligence including an introduction to the recent research and models. Each of the subsequent chapters reveals leading edge research and innovative solution that employ AI techniques with an applied perspective. The problems

include classification of spatial images, early smoke detection in outdoor space from video images, emergent segmentation from image analysis, intensity modification in images, multi-agent modeling and analysis of stress. They all are novel pieces of work and demonstrate how AI research contributes to solutions for difficult real world problems that benefit the research community, industry and society.

An Intelligent System for Engine Tribological Design

John Wiley & Sons

From the creator of the popular website Ask a Manager and New York's work-advice columnist

comes a witty, practical guide to 200 difficult professional conversations—featuring all-new advice! There’s a reason Alison Green has been called “the Dear Abby of the work world.” Ten years as a workplace-advice columnist have taught her that people avoid awkward conversations in the office because they simply don’t know what to say. Thankfully, Green does—and in this incredibly helpful book, she tackles the tough discussions you may need to have during your career. You’ll learn what to say when • coworkers push their work on you—then take credit for it • you accidentally trash-talk someone in an email then hit “reply all” • you’re being micromanaged—or not being managed at all • you catch a colleague in a lie • your boss seems unhappy with your work • your cubemate’s loud speakerphone is making you homicidal • you got drunk at the holiday party Praise for Ask a Manager “A must-read for anyone who works . . . [Alison Green’s] advice boils down to the idea that you should be professional (even when others are not) and that communicating in a straightforward manner with candor and kindness will get you far, no matter where you work.”—Booklist (starred review) “The author’s friendly, warm, no-nonsense writing is a pleasure to read, and her advice can be widely applied to relationships in all areas of readers’ lives. Ideal for anyone new to the job market or new to management, or anyone hoping to improve their work experience.”—Library Journal

(starred review) “I am a huge fan of Alison Green’s Ask a Manager column. This book is even better. It teaches us how to deal with many of the most vexing big and little problems in our workplaces—and to do so with grace, confidence, and a sense of humor.”—Robert Sutton, Stanford professor and author of *The No Asshole Rule* and *The Asshole Survival Guide* “Ask a Manager is the ultimate playbook for navigating the traditional workforce in a diplomatic but firm

way.”—Erin Lowry, author of *Broke Millennial: Stop Scraping By and Get Your Financial Life Together* *The Tidal Model* Springer Science & Business Media Plunketts InfoTech Industry Almanac presents a complete analysis of the technology business, including the convergence of hardware, software, entertainment and telecommunications. This market research tool includes our analysis of the major trends affecting the industry, from the rebound of the global PC and server market, to consumer and enterprise software, to super computers, open systems such as

Linux, web services and network equipment. In addition, we provide major statistical tables covering the industry, from computer sector revenues to broadband subscribers to semiconductor industry production. No other source provides this books easy-to-understand comparisons of growth, expenditures, technologies, imports/exports, corporations, research and other vital subjects. The corporate profile section provides in-depth, one-page profiles on each of the top 500 InfoTech companies. We have used our massive databases to provide you with unique, objective analysis of the largest and most exciting companies in:

Computer Hardware, Computer Software, Internet Services, E-Commerce, Networking, Semiconductors, Memory, Storage, Information Management and Data Processing. We've been working harder than ever to gather data on all the latest trends in information technology. Our research effort includes an exhaustive study of new technologies and discussions with experts at dozens of innovative tech companies. Purchasers of the printed book or PDF version may receive a free CD-ROM database of the corporate profiles, enabling export of vital corporate data for mail merge and other uses.

Radial Basis Function

Networks 1 Ballantine Books

This book constitutes the refereed proceedings of the 9th Pacific Rim International Workshop on Multi-Agents, PRIMA 2006, held in Guilin, China, in August 2006. The book presents 39 revised full papers and 57 revised short papers together with 4 invited talks, addressing subjects from theoretical and methodological issues to applications. Topics include agent models, agent architectures, agent-oriented software engineering, semantic Web service, collaboration, coordination

and negotiation, and more.

Agent Computing and Multi-Agent Systems Simon and Schuster

"In this definitive guide to the ever-changing modern workplace, Kathryn Minshew and Alexandra Cavoulacos, the co-founders of popular career website

TheMuse.com, show how to play the game by the New Rules. The Muse is known for sharp, relevant, and get-to-the-point advice on how to figure out exactly what your values and your skills are and how they best play out in the marketplace. Now Kathryn and Alex have gathered all of that advice and more in The New Rules of Work. Through quick exercises and structured

tips, the authors will guide you as you sort through your countless options; communicate who you are and why you are valuable; and stand out from the crowd. The New Rules of Work shows how to choose a perfect career path, land the best job, and wake up feeling excited to go to work every day-- whether you are starting out in your career, looking to move ahead, navigating a mid-career shift, or anywhere in between"--

Research Anthology on Decision Support Systems and Decision Management in Healthcare, Business, and Engineering Springer

This book presents recent research work and results in the area of communication and

information technologies. The book includes the main results of the 11th International Conference on Computing and Information Technology (IC2IT) held during July 2nd-3rd, 2015 in Bangkok, Thailand. The book is divided into the two main parts Data Mining and Machine Learning as well as Data Network and Communications. New algorithms and methods of data mining are discussed as well as innovative applications and state-of-the-art technologies on data mining, machine learning and data networking.