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***Expert Systems, Computer Vision, and Natural Language Processing  
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***Knowledge Processing with Interval and Soft Computing Cooperative Knowledge Processing Motor Skill Acquisition of the Mentally Handicapped Knowledge-Based Image Processing Systems Knowledge Processing and Data Analysis Key Issues in the New Knowledge Management Research in Personnel and Human Resources Management Perception of Faces, Objects, and Scenes***

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***Uncertain Information Processing in Expert Systems systematically and critically examines probabilistic and rule-based (compositional, MYCIN-like) systems, the two most important families of expert systems dealing with uncertainty. The book features a detailed introduction to probabilistic systems (including methods using graphical models and methods of knowledge integration), an analysis of compositional systems based on algebraic considerations, an application of graphical models, and the Dempster-Shafer theory of evidence and its use in expert systems. The book will be useful to anyone working in artificial intelligence, statistical computing, symbolic logic, and expert systems. This informative volume presents the first comprehensive review of research and theory on dual-process models of social information processing. These models***

***distinguish between qualitatively different modes of information processing in making decisions and solving problems (e.g., associative versus rule-based, controlled versus uncontrolled, and affective versus cognitive modes). Leading contributors review the basic assumptions of these approaches and review the ways they have been applied and tested in such areas as attitudes, stereotyping, person perception, memory, and judgment. Also examined are the relationships between different sets of processing modes, the factors that determine their utilization, and how they work in combination to affect responses to social information. "Traditionally, knowledge representation and reasoning systems have incorporated natural language as interfaces to expert systems or knowledge bases that performed tasks separate from natural language processing. As this book shows, however, the computational nature of representation and inference in natural language makes it the ideal model for all tasks in an intelligent computer system. Natural language processing combines the qualitative***



***characteristics of human knowledge processing with a computer's quantitative advantages, allowing for in-depth, systematic processing of vast amounts of information. How many decisions do you think the average person makes in a day? How can these choices affect our lives, both positively and negatively? Author Waymond Rodgers illustrates four basic concepts of decision making in a single model that produces a limited number of possible courses of action. Process Thinking: Six Pathways to Successful Decision Making allows you to gauge which of the pathways is appropriate for a particular situation. This, in turn, can contribute an overall improvement in your happiness, relationships, finances, education, and employment. "Dr. Rodgers' breakthrough analysis of decision making should be mandatory reading for anyone managing people or negotiating transactions." -Hank Adler, C.P.A., accounting professor, Chapman University, and retired partner, Deloitte & Touche "I think your formulaic approach to decision making will make it much easier for people to make correct***

**choices. Your approach forces decision makers to address the role their own subjective feelings (perceptions) have upon the process. It thereby makes the choice much more objective and rational." -Randall L. Erickson, J.D., partner in the California office of Crowell & Moring and chair of the firm's construction group**

**A collection of papers that explore bilingual children coping with two language systems. From a barrage of photons, we readily and effortlessly recognize the faces of our friends, and the familiar objects and scenes around us. However, these tasks cannot be simple for our visual systems--faces are all extremely similar as visual patterns, and objects look quite different when viewed from different viewpoints. How do our visual systems solve these problems? The contributors to this volume seek to answer this question by exploring how analytic and holistic processes contribute to our perception of faces, objects, and scenes. The role of parts and wholes in perception has been studied for a century, beginning with the debate between Structuralists, who championed the role of elements, and**

***Gestalt psychologists, who argued that the whole was different from the sum of its parts. This is the first volume to focus on the current state of the debate on parts versus wholes as it exists in the field of visual perception by bringing together the views of the leading researchers. Too frequently, researchers work in only one domain, so they are unaware of the ways in which holistic and analytic processing are defined in different areas. The contributors to this volume ask what analytic and holistic processes are like; whether they contribute differently to the perception of faces, objects, and scenes; whether different cognitive and neural mechanisms code holistic and analytic information; whether a single, universal system can be sufficient for visual-information processing, and whether our subjective experience of holistic perception might be nothing more than a compelling illusion. The result is a snapshot of the current thinking on how the processing of wholes and parts contributes to our remarkable ability to recognize faces, objects, and scenes, and an illustration of the diverse conceptions of analytic and***

***holistic processing that currently coexist, and the variety of approaches that have been brought to bear on the issues. This book deals with expert evaluation models in the form of semantic spaces with completeness and orthogonality properties (complete orthogonal semantic spaces). Theoretical and practical studies of some researchers have shown that these spaces describe expert evaluations most adequately, and as a result they were often included in more sophisticated models of intellectual systems for decision making and data analysis. Methods for constructing expert evaluation models of characteristics, comparative analysis of these models, studies of structural composition of their sets and constructing of generalized models are described. Models to obtain rating points for objects and groups of objects with qualitative and quantitative characteristics are presented. A number of regression models combining elements of classical and fuzzy regressions are presented. All methods and models developed by the authors and described in the book are illustrated with examples from***

**various fields of human activities. This book meant for scientists in the field of computer science, expert systems, artificial intelligence and decision making; and also for engineers, post-graduate students and students who study the fuzzy set theory and its applications. In 'Key Issues in the New Knowledge Management,' Firestone and McElroy, the architects of the New Knowledge Management (TNKM) provide an in-depth analysis of the most important issues in the field of Knowledge Management. The issues the book addresses are central in the field today: \* The Knowledge Wars, or the issue of "how you define knowledge determines how you manage it" \* The nature of knowledge processing \* Information management or knowledge management? \* Three views on the evolution of knowledge management \* The role of knowledge claim evaluation in knowledge processing, or the difference between opinion, judgements, information, data, and real knowledge in knowledge management systems \* Is culture a barrier in knowledge management? \* The Open Enterprise and accelerated sustainable**

***innovation \* Portals \* How should one evaluate KM software? \* Intellectual Capital \* Measuring the impact of KM initiatives on the organization and the bottom line \* KM and terrorism This open access book is part of the LAMBDA Project (Learning, Applying, Multiplying Big Data Analytics), funded by the European Union, GA No. 809965. Data Analytics involves applying algorithmic processes to derive insights. Nowadays it is used in many industries to allow organizations and companies to make better decisions as well as to verify or disprove existing theories or models. The term data analytics is often used interchangeably with intelligence, statistics, reasoning, data mining, knowledge discovery, and others. The goal of this book is to introduce some of the definitions, methods, tools, frameworks, and solutions for big data processing, starting from the process of information extraction and knowledge representation, via knowledge processing and analytics to visualization, sense-making, and practical applications. Each chapter in this book addresses some pertinent aspect of the data processing***

***chain, with a specific focus on understanding Enterprise Knowledge Graphs, Semantic Big Data Architectures, and Smart Data Analytics solutions. This book is addressed to graduate students from technical disciplines, to professional audiences following continuous education short courses, and to researchers from diverse areas following self-study courses. Basic skills in computer science, mathematics, and statistics are required. Agent systems are being used to model complex systems like societies, markets and biological systems. In this book we investigate issues of agent systems related to convergence and interactivity using techniques from agent based modelling to simulate complex systems, and demonstrate that interactivity/exchange and convergence in multi-agent systems are issues that are significantly interrelated. Topic and features: - Introduces the state of the art in multi-agent systems, with an emphasis on agent-based computational economics. - Sheds light on the fundamental concepts behind the stability of multi-agent systems. - Investigates***

**knowledge exchange among agents, the rationale behind it and its effects on the ecosystem. - Explores how information provided through interaction with the system can be used to optimise its performance. - Describes a pricing strategy for a realistic large-scale distributed system. This book supplies a comprehensive resource and will be invaluable reading for researchers and postgraduates studying this topic. Management and administrative processes within the construction industry have been undergoing major changes in the last several decades. These changes have involved significant adjustments in management science and management techniques, brought about by the need for contemporary valid information with which to manage the construction process. In short, management in the construction industry is changing significantly; change will continue at an accelerated pace at least through the next decade. The responses required of construction industry management are now resulting in a movement away from an entrepreneurial management style to professional**



**management techniques and procedures.**

**THE COMPELLING ECONOMIC ISSUES** The issues forcing these changes are economic. The rising costs of construction and of money are forcing the buyers of construction services to be more demanding. Their demands are for more construction economies, more production, and more productivity than at any time in the past. Nowhere has this been more evident than in the Business Roundtable on construction and in the response of the construction industry to it. To be successfully responsive, management in the construction industry will be required to use the best project management methods available for cost control, schedule control, and for financial and accounting controls. But responsive professional management can survive and will flourish within this more demanding economic environment. This book constitutes the thoroughly refereed proceedings of the 22nd International Conference on Computer Processing of Oriental Languages, ICCPOL 2009, held in Hong Kong, in March 2009. The 25 revised full papers and 15 revised

***poster papers presented were carefully reviewed and selected from 63 submissions. The papers address a variety of topics in natural language processing and its applications, including word segmentation, phrase and term extraction, chunking and parsing, semantic labelling, opinion mining, ontology construction, machine translation, information extraction, document summarization, and so on. This volume presents the proceedings of an international workshop on the processing of declarative knowledge. The workshop was organized and hosted by the German Research Center for Artificial Intelligence (DFKI) in cooperation with the Association for Logic Programming (ALP) and the Gesellschaft für Informatik (GI). Knowledge is often represented using definite clauses, rules, constraints, functions, conceptual graphs, and related formalisms. The workshop addressed such high-level representations and their efficient implementation required for declarative knowledge bases. Many of the papers treat representation methods, mainly concept languages, and many treat implementation***

**methods, such as transformation techniques and WAM-like abstract machines. Several papers describe implemented knowledge-processing systems. The competition between procedural and declarative paradigms was discussed in a panel session, and position statements of the panelists are included in the volume. Denmark, Estonia, Finland, Norway, and Sweden participated in the first round of the International Survey of Adults' Skills. The survey is a product of the Programme for the International Assessment of Adult Competencies (PIAAC) led by the Organisation for Economic Co-operation and Development (OECD). The survey assessed the proficiency in literacy, numeracy, and problem-solving in technology-rich environments of adults aged 16-65. This publication is the product of the Nordic PIAAC Network, consisting of members from all five countries. It concentrates on the comparative results from four Nordic countries and Estonia, forming a Nordic region with many common features. It supplements the series of national and international PIAAC reports by**

***comparing the results from five countries, as well as comparing an aggregate of these countries to other country aggregates. The results published in this book draw on a unique Nordic database, which the Nordic PIAAC Network has produced. The database consists of PIAAC assessment data and background information, supplemented by social, educational, and labour market register data from the five countries. What do we do when we view a work of art? What does it mean to have an 'aesthetic' experience? Are such experiences purely in the eye of the beholder? This book addresses the nature of aesthetic experience from the perspectives of philosophy psychology and neuroscience. Interval computing combined with fuzzy logic has become an emerging tool in studying artificial intelligence and knowledge processing (AIKP) applications since it models uncertainties frequently raised in the field. This book provides introductions for both interval and fuzzy computing in a very accessible style. Application algorithms covered in this book include quantitative and qualitative data***

***mining with interval valued datasets, decision making systems with interval valued parameters, interval valued Nash games and interval weighted graphs. Successful applications in studying finance and economics, etc are also included. This book can serve as a handbook or a text for readers interested in applying interval and soft computing for AIKP. Video of source materials to be used with a workbook to help interpreters develop strong and flexible English skills. Topics include: comprehension of source material, memory, acuity and discrimination, immediate repetition, delayed repetition, number repetition, word-level pattern inference, phrase-level pattern inference, and multitasking. Within the metal and mining industries, the use of expert systems for monitoring and control is on the increase. The content of each paper had to include both expert systems, neural networks or fuzzy control. The papers were evenly contributed from industry, universities and research institutes, thus this book provides a valuable insight into the theoretical as well as the practical applications currently***

***in use within the industry. This book constitutes the proceedings of the First International Conference on Knowledge - Ontology - Theory (KONT 2007) held in Novosibirsk, Russia, in September 2007 and the First International Conference on Knowledge Processing in Practice (KPP 2007) held in Darmstadt, Germany, in September 2007. The 21 revised full papers were carefully reviewed and selected from numerous submissions and cover four main focus areas: applications of conceptual structures; concept based software; ontologies as conceptual structures; and data analysis. Communication Skills for the Processing of Words is designed to teach and reinforce the communication skills necessary for entry into the business environment. In addition to providing students with a firm base in the language arts, the text-workbook helps develop the decision-making skills necessary for success in today's offices. This text-workbook focuses on specific grammar and punctuation rules. The realistic application materials address such business-related topics as stress, business ethics, listening***

***skills, office technology, management skills, quality circles, and computer information.. Based upon a conference held in Bethesda in 1985, this volume brings together the research and theoretical perspectives of experts in the developmental aspects of motor control, coordination, and skill in the mentally handicapped. This is accomplished within the context of cognition. Section I deals with the dynamics of controlling movement skill and the nature of the variables that mediate the learning of motor skills. Sections II and III examine the traditional area of research in motor behavior, i.e., the speed of information processing and reaction time paradigms. The last section discusses the issue of training to minimize the effects of mental retardation on motor behavior. This three volume set (CCIS 853-855) constitutes the proceedings of the 17th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, IPMU 2017, held in Cádiz, Spain, in June 2018. The 193 revised full papers were carefully reviewed and selected from 383 submissions. The papers***

***are organized in topical sections on advances on explainable artificial intelligence; aggregation operators, fuzzy metrics and applications; belief function theory and its applications; current techniques to model, process and describe time series; discrete models and computational intelligence; formal concept analysis and uncertainty; fuzzy implication functions; fuzzy logic and artificial intelligence problems; fuzzy mathematical analysis and applications; fuzzy methods in data mining and knowledge discovery; fuzzy transforms: theory and applications to data analysis and image processing; imprecise probabilities: foundations and applications; mathematical fuzzy logic, mathematical morphology; measures of comparison and entropies for fuzzy sets and their extensions; new trends in data aggregation; pre-aggregation functions and generalized forms of monotonicity; rough and fuzzy similarity modelling tools; soft computing for decision making in uncertainty; soft computing in information retrieval and sentiment analysis; tri-partitions and uncertainty; decision making modeling and***



***applications; logical methods in mining knowledge from big data; metaheuristics and machine learning; optimization models for modern analytics; uncertainty in medicine; uncertainty in Video/Image Processing (UVIP). Research in Personnel and Human Resources Management is designed to promote theory and research on important substantive and methodological topics in the field of human resources management. This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: [frontiersin.org/about/contact](http://frontiersin.org/about/contact). Support the***

***very best health, well-being, and quality of life for older adults! Here's the ideal resource for rehabilitation professionals who are working with or preparing to work with older adults! You'll find descriptions of the normal aging process, discussions of how health and social factors can impede your clients' ability to participate in regular activities, and step-by-step guidance on how to develop strategies for maximizing their well-being. Knowledge-based (or expert systems) and image processing have been applied to many domains but, although both fields frequently address common application areas, they are rarely applied together. Often a combined knowledge-based system and image processing approach can be highly appropriate and this book provides an insight into both areas and show students how a judicious mix of the two can result in a more effective system. The authors include detailed case studies to illustrate the two approaches as well as worked examples and solutions to problems throughout the text. Third and fourth year undergraduates and MSc students with***

***some computer science background will find this book invaluable. Postgraduates and researchers looking for an introduction to either area - or ways to combine the two - will also welcome this clearly written and comprehensive text. For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide.***

***Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network. How to Optimize Fluid Bed Processing Technology: Part of the Expertise in Pharmaceutical Process Technology Series addresses the important components of fluid bed granulation, providing answers to problems that commonly arise and using numerous practical examples and case studies as reference. This book covers the theoretical concepts involved in fluidization, also providing a description of the choice and functionality of equipment. Additional chapters feature key aspects of the technology, including formulation***

**requirements, process variables, process scale-up, troubleshooting, new development, safety, and process evaluation. Given its discussion of theoretical principles and practical solutions, this is a go-to resource for all those scientists and new researchers working with fluid bed granulation as a unit operation. Written by an expert in the field with several years of experience in product development, manufacturing, plant operations, and process engineering Illustrates when fluid bed granulation is needed, when to use less common fluid bed granulation methods, and the advantages of fluid bed granulation when compared to other granulation techniques Offers troubleshooting tips and practical advice for scientists working with this technique**

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