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IBSS is the essential tool for librarians, university departments, research institutions and any public or private institution whose work requires access to up-to-date and comprehensive knowledge of the social sciences.

Enabling information interoperability, fostering legal knowledge usability and reuse, enhancing legal information search, in short, formalizing the complexity of legal knowledge to enhance legal knowledge management are challenging tasks, for which different solutions and lines of research have been proposed. During the last decade, research and applications based on the use of legal ontologies as a technique to represent legal knowledge has raised a very interesting debate about their capacity and limitations to represent conceptual structures in the legal domain. Making conceptual legal knowledge explicit would support the development of a web of legal knowledge, improve communication, create trust and enable and support open data, e-government and e-democracy activities. Moreover, this explicit knowledge is also relevant to the formalization of software agents and the shaping of virtual institutions and multi-agent systems or environments. This book explores the use of ontologism in legal knowledge representation for semantically-enhanced legal knowledge systems or web-based applications. In it, current methodologies, tools and languages used for ontology development are revised, and the book includes an exhaustive revision of existing ontologies in the legal domain. The development of the Ontology of Professional Judicial Knowledge (OPJK) is presented as a case study.

Disha's bestseller Professional Knowledge for IBPS/SBI Specialist IT Officer Exam is the thoroughly revised and updated 2nd edition of the book. In the new edition the past solved papers of 2012-16

from IBPS and SBI exams have been integrated in the starting of the book to help aspirants get an insight into the examination pattern and the types of questions asked in the past years exams. The book contains 11 chapters and each chapter provides theory as per the syllabi of the recruitment examination. The chapters in the book provides exercises to help aspirants practice the concepts discussed in the chapters. Each chapter in the book contains ample number of questions designed on the lines of questions asked in previous years' Specialist IT Officer Exams. The book covers 2000+ useful questions for Professional Knowledge. The new edition also contains 3 Practice Sets Professional Knowledge (IT) designed exactly as per the latest pattern to boost the confidence of the students. As the book contains enough study material as well as questions, it for sure will act as the ideal and quick resource guide for IBPS/SBI and other nationalised Bank Specialist Officers' Recruitment Examination.

The new edition of Disha's bestseller Professional Knowledge for IBPS & SBI Specialist IT Officer Exam 4th edition is updated with 2018 Solved Paper, new questions in each test + 5 New Practice Sets. The book contains 11 chapters and each chapter provides theory as per the syllabi of the recruitment examination. The chapters in the book provides exercises to help aspirants practice the concepts discussed in the chapters. Each chapter in the book contains ample number of questions designed on the lines of questions asked in previous years' Specialist IT Officer Exams. The book covers 2000+ useful questions for Professional Knowledge. The new edition also contains 15 Practice Sets designed exactly as per the latest pattern to boost the confidence of the students. Trial Techniques and Trials, Eleventh Edition

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popu-

lar Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Since the publication of Vygotsky's Thought and Language in the United States, a number of North American and European investigators have conducted systematic observations of children's spontaneous private speech, giving substantial support to Vygotsky's major hypotheses — particularly those regarding the social origins of higher psychological functions. However, there still remain many vital questions about the origins, significance, and functions of private speech: How can social and private speech be validly differentiated? What kinds of social interactions promote the use of private speech? What are the sources of individual differences in the use of private speech? This unique volume addresses these and many other important questions. Characterized by a strong emphasis on original data, it reports on systematic observations of spontaneous private speech in children and adults in both laboratory and naturalistic settings. In addition to its systematic analysis of common methodological problems in the field, the book contains the most comprehensive bibliography of the private speech literature currently available.

This winter-themed collection is packed with a wide range of kids favorite puzzles, including mazes, number puzzles, wordplay, brainteasers, matching, and our ever-popular Hidden Pictures(r) puzzles. With bright illustrations, varied levels of complexity, and plenty of humor, this book is sure to challenge, entertain, and amuse kids of every interest and ability. "

Title shows resumes and cover letters of people who wish to obtain jobs in the aviation and travel field or to exit from the industry into new careers. The title reveals techniques for finding aviation and travel industry jobs, and also provided are strategies for

transferring skills and experience to other industries. The book contains more than 100 "real" resumes and cover letters tailored to aviation and travel backgrounds, and the purpose of the book is to give models or examples for people to use in creating their own resumes and cover letters tailored to the aviation and travel industry. Readers will find resumes of commercial pilots, ground support equipment operators, airport managers, quality control inspectors, aircraft loading managers, and many others. This book will be of enormous help to people seeking employment in the aviation and travel industry and to people who desire to transfer their aviation and travel backgrounds into new occupational areas.

The thoroughly Revised & Updated new 7th edition of Professional Knowledge for IBPS & SBI Specialist IT Officer Exam is updated as per the new pattern and with latest Solved Papers and 15 Practice Sets. # The book contains 12 chapters and each chapter provides theory as per the syllabi of the recruitment examination. # The new edition also contains 15 Practice Sets designed exactly as per the latest pattern to boost the confidence of the students. # The chapters in the book provide exercises to help aspirants practice the concepts discussed in the chapters. # Each chapter in the book contains ample number of questions designed on the lines of questions asked in previous years' Specialist IT Officer Exams. # The book covers 2500+ useful questions for Professional Knowledge.

This book publishes the best papers accepted and presented at the 3rd edition of the International Conference on Advanced Intelligent Systems for Sustainable Development Applied to Agriculture, Energy, Health, Environment, Industry, Education, Economy, and Security (AI2SD'2020). This conference is one of the biggest amalgamations of eminent researchers, students, and delegates from both academia and industry where the collaborators have an interactive access to emerging technology and approaches globally. In this book, readers find the latest ideas addressing technological issues relevant to all areas of the social and human sciences for sustainable development. Due to the nature of the conference with its focus on innovative ideas and developments, the book provides the ideal scientific and brings together very high-quality chapters written by eminent researchers from different disciplines, to discover the most recent developments in scientific research.

Expert judgment is invaluable for assessing products, systems, and situations for which measurements or test results are sparse or nonexistent. *Eliciting and Analyzing Expert Judgment: A Practical Guide* takes the reader step by step through the techniques of eliciting and analyzing expert judgment, with special attention given to helping the reader develop elicitation methods and tools adaptable to a variety of unique situations and work areas. The analysis procedures presented in the book may require a basic understanding of statistics and probabilities, but the authors have provided detailed explanations of the techniques used and have taken special care to define all statistical jargon. Originally published in 1991, this book is designed so that those familiar with the use of expert judgment can quickly find the material appropriate for their advanced background.

When we think about expertise, we usually consider people who master tasks at a level not reachable by most other people. Although we rarely realise it, however, most humans are experts in many aspects of everyday life. This expertise enables us to find our way through a complex environment that is our life. For instance, we can instantly recognise multiple objects and relations between them to form a meaningful unit, such as an office. Thus, research on expertise is not only important to investigate the cognitive and neural processes within an "elite" group, but it is also a powerful tool to understand how everyone can acquire complex skills. The goal of this Research Topic is to shed further light on the common and distinct neural mechanisms that implement various kinds of expertise. We broadly define expertise as skill in any perceptual, cognitive, social or motor domain, with the common core being optimised information processing due to knowledge acquired from repeated experiences. Thus, we are interested in the full range of mental processes modulated or modified by expertise, from "simple" object or pattern recognition to complex decision making or problem solving in a particular domain. These domains can range from everyday or occupational expertise to sports and rather artificial domains such as board games. In all cases, the aim should be to elucidate how the brain implements these sometimes incredible feats. We are particularly interested in connecting cognitive theories about expertise and expertise-related performance differences with models and data on the neural implementation of expertise. We welcome original research contributions using the full range of behavioural neuroscience methods,

as well as theoretical, methodological or historical reviews, and opinion papers focusing on any of the above-mentioned aspects.

This book provides insights into the inspiring and multifaceted field of advertising research, which is confronted with challenges regarding ad content and execution, media placement, as well as online and social media. Distinguishing between digital, classic, subtle, and alternative advertising formats, renowned scholars from around the globe contribute state-of-the-art research on these issues in 30 chapters. *Advances in Advertising Research* are published by the European Advertising Academy (EAA). This volume is a compilation of research presented at the 13th International Conference in Advertising (ICORIA), which was held in Amsterdam (The Netherlands) in June 2014. The conference gathered around 150 participants from diverse countries from Europe, North-America, Asia, and Australia.

Model cover letters and resumes cover such fields as aviation, communication, finance, and sales

Research inherently requires collaborative efforts between individuals, databases, and institutions. However, the systems that enable such interpersonal cooperation must be properly suited in facilitating such efforts to avoid impeding productivity. *Collaborative Knowledge in Scientific Research Networks* addresses the various systems in place for collaborative e-research and how these practices serve to enhance the quality of research across disciplines. Covering new networks available through social media as well as traditional methods such as mailing lists and forums, this publication considers various scientific disciplines and their individual needs. Theorists of collaborative scientific work, technology developers, researchers, and funding agency officials will find this book valuable in exploring and understanding the process of scientific collaboration.

This book introduces for the first time the notion of fuzzy interval matrices, fuzzy interval bimatrices, fuzzy interval n-matrices, neutrosophic interval matrices, neutrosophic interval bimatrices, neutrosophic interval n-matrices, fuzzy neutrosophic interval matrices and fuzzy neutrosophic interval n-matrices, where $n \geq 2$. These new notions find their applications in FCInM, FRInM, FBAItM, NCInM, NCRInM and NRInM models, where $n \geq 1$. It is important to mention that these Fuzzy interval n-matrices and Fuzzy neutrosophic interval n-matrices will find their usage in Leontief economic models and Markov chains that have lots of industrial applica-

tions.

Design Expertise explores what it takes to become an expert designer. It examines the perception of expertise in design and asks what knowledge, skills, attributes and experiences are necessary in order to design well. Bryan Lawson and Kees Dorst develop a new model of design expertise and show how design expertise can be developed. This book is designed for all students, teachers, practitioners and researchers in architecture and design. To enable all readers to explore the book in a flexible way, the authors' words are always found on the left hand page. On the right are diagrams, illustrations and the voices of designers, teachers and students and occasionally others too. 'Design Expertise' provides a provocative new reading on the nature of design and creative thought.

Experts are persons who are very knowledgeable about or skillful in a particular area. The aim of this Research Topic is to advance knowledge in the understanding of the phenomenon of expertise by putting together different lines of research that directly or indirectly study expertise. Herbert Simon's expertise studies initiated two lines of research. One is interested in elucidating the cognitive processes underlying expertise, and the other investigates how expertise develops. These lines of research started with studies comparing experts and novices in chess, and then they extended to numerous areas of expertise such as music, medical diagnosis, sports, arts and sciences. In the field of judgment and decision making researchers investigate the quality of judgments and decisions of experts in different professions (e.g., clinical psychologists, medical practitioners, judges, meteorologists, stock brokers). Those lines of research explicitly investigate the topic of expertise, but there are other research areas that make a substantial contribution to understanding expertise. Scholars in language acquisition and in face perception, for example, investigate cognitive processes and development of expertise in areas in which almost everyone becomes an expert. Furthermore, skill acquisition research informs in detail about short term cognitive changes that may be important to understand how expertise develops. We are interested in original research that advances knowledge in the understanding of decision making, cognitive processes and development of expertise in sports, intellectual games, arts, scientific disciplines and professions, as well as expertise in cognitive abilities such as perception, memory, attention, language and imagery.

We are also interested in theoretical articles in any of these areas, articles that describe computational or mathematical models of expertise, and articles offering a framework that would guide expertise research. Articles that offer integrative approaches of some of the areas described above are strongly encouraged. The goal of this Research Topic is to produce a hallmark piece of work in the field of expertise, which complements and does not overlap with the "Neural implementations of expertise" Research Topic in *Frontiers in Human Neuroscience*.

This book outlines the core theory and practice of data mining and knowledge discovery (DM & KD) examining theoretical foundations for various methods, and presenting an array of examples, many drawn from real-life applications. Most theoretical developments are accompanied by extensive empirical analysis, offering a deep insight into both theoretical and practical aspects of the subject. The book presents the combined research experiences of 40 expert contributors of world renown.

The Practical, Authoritative, 360-Degree Technical Guide to Oracle Exadata: From Setup to Administration, Optimization, Tuning, and Troubleshooting The blazingly fast Oracle Exadata Database Machine is being embraced by thousands of large-scale users worldwide: by governments, the military, enterprise organizations, cloud service providers, and anyone who needs extreme performance. Now, Oracle Exadata Expert's Handbook provides authoritative guidance to running Oracle Exadata with maximum reliability, effectiveness, performance, and efficiency. Six renowned Oracle technology experts have brought together core technical information, experience, best practices, and insider tips in a concise reference. Covering both 11g and 12c versions of Oracle Exadata software, they deliver hands-on coverage of best practices, setup, migration, monitoring, administration, performance tuning, and troubleshooting. Whether you're an Oracle Exadata DBA, DMA, architect, or manager, you need these insights. Get a 360-degree overview of the Oracle Exadata Database Machine Efficiently deploy RAC within the Oracle Exadata ecosystem Fully leverage Storage Cell's extraordinary performance, via Offloading, Smart Scans, and Hybrid Columnar Compression Manage Exadata with OEM 12c: perform setup, configuration, asset/target discovery, and day-to-day administration Tune Oracle Exadata for even better performance Perform Exadata Backup/Recovery/DR with RMAN and Data Guard Migrate to Oracle Exadata from other plat-

forms Use Oracle Exadata with the ZFS Storage Appliance Consolidate within the Exadata Database Cloud

After the IPS2 conferences in Cranfield and Linköping in 2009 and 2010 the 3rd CIRP International Conference on Industrial Product Service Systems (IPS2) 2011 takes place in Braunschweig, Germany. IPS2 itself is defined as "an integrated industrial product and service offering that delivers value in use". The customers expect comprehensive solutions, which are adapted to their individual needs. IPS2 offers the possibility to stand out from competition and for long-term customer loyalty. Particularly in times of economic crisis it becomes apparent which producing companies understand to satisfy the needs and requirements of their customers. Especially in this relatively new domain IPS2 it will be important to keep track of the whole context and to seek cooperation with other research fields and disciplines. The 3rd CIRP International Conference on Industrial Product Service Systems (IPS2) 2011 serves as a platform for such collaborations and the discussion of new scientific ideas.

The role of artificial intelligence (AI) applications in fields as diverse as medicine, economics, linguistics, logical analysis and industry continues to grow in scope and importance. AI has become integral to the effective functioning of much of the technical infrastructure we all now take for granted as part of our daily lives. This book presents the papers from the 21st biennial European Conference on Artificial Intelligence, ECAI 2014, held in Prague, Czech Republic, in August 2014. The ECAI conference remains Europe's principal opportunity for researchers and practitioners of Artificial Intelligence to gather and to discuss the latest trends and challenges in all subfields of AI, as well as to demonstrate innovative applications and uses of advanced AI technology. Included here are the 158 long papers and 94 short papers selected for presentation at the conference. Many of the papers cover the fields of knowledge representation, reasoning and logic as well as agent-based and multi-agent systems, machine learning, and data mining. The proceedings of PAIS 2014 and the PAIS System Demonstrations are also included in this volume, which will be of interest to all those wishing to keep abreast of the latest developments in the field of AI.

R. MILNE Intelligent Applications Ltd The papers in this volume are the Application Papers presented at ES98, the Eighteenth International Conference of the British Computer Society's Specialist

Group on Expert Systems. This year has been yet another "applications" success for the conference with this volume containing seventeen papers describing either deployed applications or emerging applications. All these documented case studies provide clear evidence of the success of AI technology in solving real business problems. Six of these papers were nominated for the Best Application Award during the review process. These nominations were then reviewed by the members of the Programme Committee to select the winning paper. The papers in the volume were subject to refereeing by at least two referees. All papers which were controversial for some reason were discussed in depth by the Application Programme Committee. Ten referees from the industrial and commercial sector and nine referees from the aca-

demie sector assisted me in reviewing the papers. The review form asked the referee to score the papers according to a number of dimensions, to rate it overall, and to offer critical comments to me, and to the authors. It also asks the referee to score their expertise in the area of each paper they review. Only reviews from 'expert' referees are used.

In this paper, we have investigated neutrosophic soft expert multi-sets (NSEMs) in detail. The concept of NSEMs is introduced. Several operations have been defined for them and their important algebraic properties are studied. Finally, we define a NSEMs aggregation operator to construct an algorithm for a NSEM decision-making method that allows for a more efficient decision-making process.

The thoroughly Revised & Updated new 6th edition of Professional Knowledge for IBPS & SBI Specialist IT Officer Exam 6th edition is updated as per the new pattern and with latest Solved Paper, new questions in each test + 5 New Practice Sets. The book contains 12 chapters and each chapter provides theory as per the syllabi of the recruitment examination. The chapters in the book provides exercises to help aspirants practice the concepts discussed in the chapters. Each chapter in the book contains ample number of questions designed on the lines of questions asked in previous years' Specialist IT Officer Exams. The book covers 2500+ useful questions for Professional Knowledge. The new edition also contains 15 Practice Sets designed exactly as per the latest pattern to boost the confidence of the students.