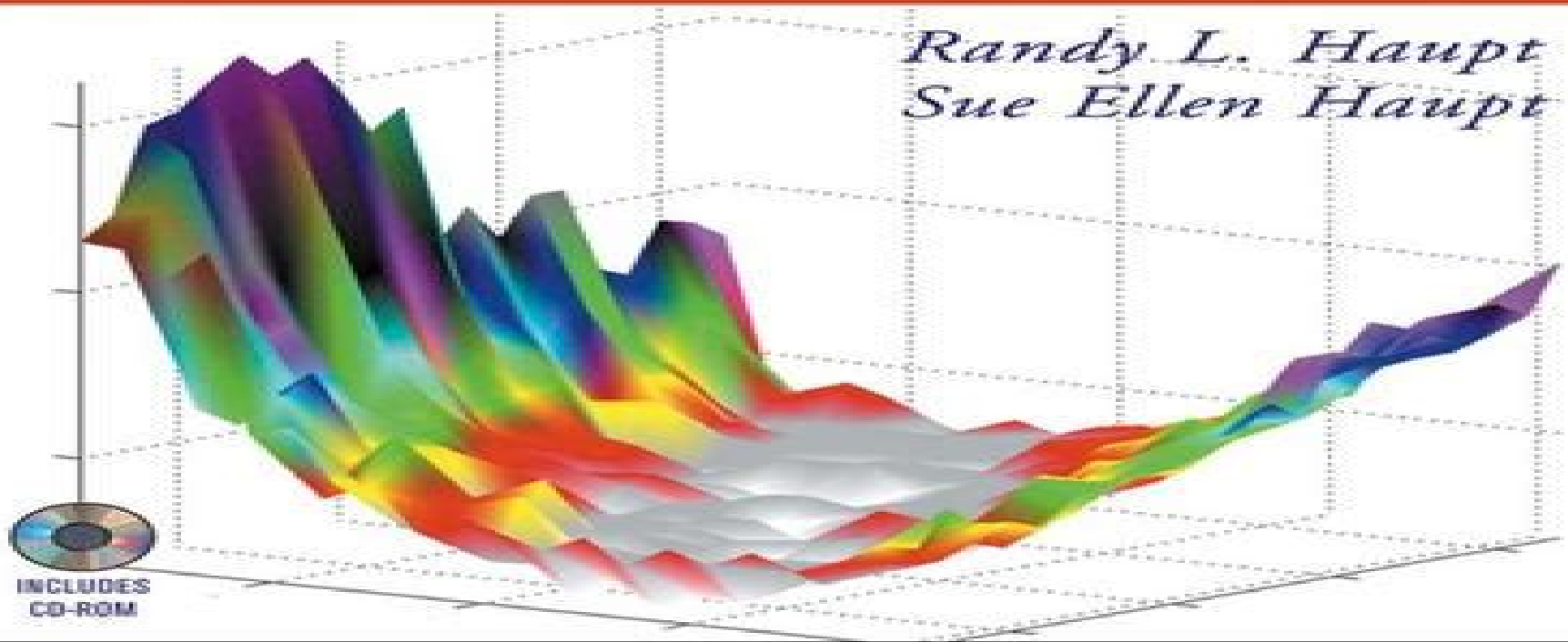


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**Database and Expert**

**Systems Applications** Hendrik Decker, Lenka Lhotská, Sebastian Link, Marcus Spies, Roland R. Wagner, 2014-08-20 This two volume set LNCS 8644 and LNCS 8645 constitutes the refereed proceedings of the 25th International Conference on Database and Expert Systems Applications DEXA 2014 held in Munich Germany September 1 4 2014 The 37 revised full papers presented together with 46 short papers and 2 keynote talks were carefully reviewed and selected from 159 submissions The papers discuss a range of topics including data quality social web XML keyword search skyline queries graph algorithms information retrieval XML security semantic web classification and clustering queries social computing similarity search ranking data mining big data approximations privacy data exchange data integration web semantics repositories partitioning and business applications     Advanced Data Mining and Applications Hiroshi Motoda, Zhaohui Wu, Longbing Cao, Osmar Zaiane, Min Yao, Wei Wang, 2013-12-14 The two volume set LNAI 8346 and 8347 constitutes the thoroughly refereed proceedings of the 9th International Conference on Advanced Data Mining and Applications ADMA 2013 held in Hangzhou China in December 2013 The 32 regular papers and 64 short papers presented in these two volumes were carefully reviewed and selected from 222 submissions The papers included in these two volumes cover the following topics opinion mining behavior mining data stream mining sequential data mining web mining image mining text mining social network mining classification clustering association rule mining pattern mining regression predication feature extraction identification privacy preservation applications and machine learning     Mexican Mathematicians Abroad Noé Bárcenas, Fernando Galaz-García, Mónica Moreno Rocha, 2016-02-01 This volume contains the proceedings of the First Workshop Matem ticos Mexicanos J venes en el Mundo held from August 22 24 2012 at Centro de Investigaci n en Matem ticas CIMAT in Guanajuato Mexico See more at <http://bookstore.ams.org/conm/657/sthash.cUjwTcvX.dpuf> This volume contains the proceedings of the First Workshop Matem ticos Mexicanos J venes en el Mundo held from August 22 24 2012 at Centro de Investigaci n en Matem ticas CIMAT in Guanajuato Mexico One of the main goals of this meeting was to present different research directions being pursued by young Mexican mathematicians based in other countries such as Brazil Canada Colombia Estonia Germany Spain and the United States showcasing research lines currently underrepresented in Mexico Featured are survey and research articles in six areas algebra analysis applied mathematics geometry probability and topology Their topics range from current developments related to well known open problems to novel interactions between pure mathematics and computer science Most of the articles provide a panoramic view of the fields and problems the authors work on making the book accessible to advanced graduate students and researchers in mathematics from different fields This book is published in cooperation with Sociedad Matem tica Mexicana     **Virtual and Mobile Healthcare: Breakthroughs in Research and Practice** Management Association, Information Resources, 2019-09-06 One of the primary topics at the center of discussion and very often debate between industry professionals government officials and the general public is the current healthcare system and the potential for an overhaul of its processes and services Many organizations concerned for

the long term care of patients wish to see new strategies practices and organizational tools developed to optimize healthcare systems all over the world One of the central engines of the current shift toward reorientation of healthcare services is virtual and mobile healthcare Virtual and Mobile Healthcare Breakthroughs in Research and Practice explores the trends challenges and issues related to the emergence of mobile and virtual healthcare The book also examines how mobile technologies can best be used for the benefit of both doctors and their patients Highlighting a range of topics such as smart healthcare electronic health records and m health this publication is an ideal reference source for medical professionals healthcare administrators doctors nurses practitioners and researchers in all areas of the medical field *Data*

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**Advances in Knowledge-based and Intelligent Information and Engineering Systems** Manuel Graña, 2012 In this 2012 edition of *Advances in Knowledge Based and Intelligent Information and Engineering Systems* the latest innovations and advances in Intelligent Systems and related areas are presented by leading experts from all over the world The 228 papers that are included cover a wide range of topics One emphasis is on Information Processing which has become a pervasive phenomenon in our civilization While the majority of Information Processing is becoming intelligent in a very broad sense major research in Semantics Artificial Intelligence and Knowledge Engineering supports the domain specific applications that are becoming more and more present in our everyday living Ontologies play a major role in the development of Knowledge Engineering in various domains from Semantic Web down to the design of specific Decision Support Systems Research on Ontologies and their applications is a highly active front of current Computational Intelligence science that is addressed here Other subjects in this volume are modern Machine Learning Lattice Computing and Mathematical Morphology The wide scope and high quality of these contributions clearly show that knowledge engineering is a continuous living and evolving set of technologies aimed at improving the design and understanding of systems and their relations with humans

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social science science engineering and medicine This book makes error free codes available to end users so that these codes can be used to understand the implementation of GMDH and then create opportunities to further develop the variants of GMDH algorithms C language has been chosen because it is a basic language commonly taught in the first year in computer programming courses in most universities and colleges and the compiled versions could be used for more meaningful practical applications where security is necessary

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**Agent and Multi-Agent Systems: Technologies and Applications** Gordan Jezic, Robert J. Howlett, Lakhmi C. Jain, 2015-06-09 Agents and multi agent systems are related to a modern software paradigm which has long been recognized as a promising technology for constructing autonomous complex and intelligent systems The topics covered in this volume include agent oriented software engineering agent co operation co ordination negotiation organization and communication distributed problem solving specification of agent communication languages agent privacy safety and security formalization of ontologies and conversational agents The volume highlights new trends and challenges in agent and multi agent research and includes 38 papers classified in the following specific topics learning paradigms agent based modeling and simulation business model innovation and disruptive technologies anthropic oriented computing serious games and business intelligence design and implementation of intelligent agents and multi agent systems digital economy and advances in networked virtual enterprises Published papers have been presented at the 9th KES Conference on Agent and Multi Agent Systems Technologies and Applications KES AMSTA 2015 held in Sorrento Italy Presented results should be of value to the research community working in the fields of artificial intelligence collective computational intelligence robotics dialogue systems and in particular agent and multi agent systems technologies tools and applications

*Advances and Impacts of the Theory of Inventive Problem Solving* Sebastian Koziółek, Leonid Chechurin, Mikael Collan, 2018-11-29 This book offers a collection of cutting edge research on the Theory of Inventive Problem Solving TRIZ Introduced by Genrich Altshuller in 1956 TRIZ has since been used by engineers inventors and creators as an essential structured innovation method at businesses and organizations around the globe The chapters of this book showcase work by selected authors from the TRIZ Future conferences which are organized by the European TRIZ Association ETRIA The chapters reflect an international mix

of new ideas on TRIZ and knowledge based innovation highlight recent advances in the TRIZ community and provide examples of successful collaboration between industry and academia The book first introduces the reader to recent methodological innovations then provides an overview of established and new TRIZ tools followed by a collection of case studies and examples of TRIZ implementation in various scientific and social contexts

*Structural Stability And Dynamics, Volume 1 (With Cd-rom) - Proceedings Of The Second International Conference* Chien Ming Wang,Gui-rong Liu,Kok Keng Ang,2002-12-05 ICSSD 2002 is the second in the series of International Conferences on Structural Stability and Dynamics which provides a forum for the exchange of ideas and experiences in structural stability and dynamics among academics engineers scientists and applied mathematicians Held in the modern and vibrant city of Singapore ICSSD 2002 provides a peep at the areas which experts on structural stability and dynamics will be occupied with in the near future From the technical sessions it is evident that well known structural stability and dynamic theories and the computational tools have evolved to an even more advanced stage Many delegates from diverse lands have contributed to the ICSSD 2002 proceedings along with the participation of colleagues from the First Asian Workshop on Meshfree Methods and the International Workshop on Recent Advances in Experiments and Computations on Modeling of Heterogeneous Systems Forming a valuable source for future reference the proceedings contain 153 papers including 3 keynote papers and 23 invited papers contributed by authors from all over the world who are working in advanced multi disciplinary areas of research in engineering All these papers are peer reviewed with excellent quality and cover the topics of structural stability structural dynamics computational methods wave propagation nonlinear analysis failure analysis inverse problems non destructive evaluation smart materials and structures vibration control and seismic responses The major features of the book are summarized as follows a total of 153 papers are included with many of them presenting fresh ideas and new areas of research all papers have been peer reviewed and are grouped into sections for easy reference wide coverage of research areas is provided and yet there is good linkage with the central topic of structural stability and dynamics the methods discussed include those that are theoretical analytical computational artificial evolutionary and experimental the applications range from civil to mechanical to geo mechanical engineering and even to bioengineering

*Advances in Ceramics* Costas Sikalidis,2011-09-06 The current book consists of twenty four chapters divided into three sections Section I includes fourteen chapters in electric and magnetic ceramics which deal with modern specific research on dielectrics and their applications on nanodielectrics on piezoceramics on glass ceramics with para anti or ferro electric active phases of varistors ceramics and magnetic ceramics Section II includes seven chapters in bioceramics which include review information and research results data on biocompatibility on medical applications of alumina zirconia silicon nitride ZrO<sub>2</sub> bioglass apatite wollastonite glass ceramic and b tri calcium phosphate Section III includes three chapters in applications of ceramics in environmental improvement and protection in water cleaning in metal bearing wastes stabilization and in utilization of wastes from ceramic industry in concrete and

concrete products      **Numerical Simulation of Heat Exchangers** W. J. Minkowycz, E. M. Sparrow, J. P. Abraham, J. M. Gorman, 2017-04-07 This book deals with certain aspects of material science particularly with the release of thermal energy associated with bond breaking. It clearly establishes the connection between heat transfer rates and product quality. The editors then sharply draw the thermal distinctions between the various categories of welding processes and demonstrate how these distinctions are translated into simulation model uniqueness. The book discusses the incorporation of radiative heat transfer processes into the simulation model.

**Hydroinformatics, Proceedings Of The 6th International Conference (In 2 Volumes, With Cd-rom)** Shie-yui Liong, Kok Kwang Phoon, Vladan Babovic, 2004-06-18 Hydroinformatics addresses cross disciplinary issues ranging from technological and sociological to more general environmental concerns including an ethical perspective. It covers the application of information technology in the widest sense to problems of the aquatic environment. This two volume publication contains about 250 high quality papers contributed by authors from over 50 countries. The proceedings present many exciting new findings in the emerging subjects as well as their applications such as data mining, data assimilation, artificial neural networks, fuzzy logic, genetic algorithms and genetic programming, chaos theory and support vector machines, geographic information systems and virtual imaging, decision support and management systems, Internet based technologies. This book provides an excellent reference to researchers, graduate students, practitioners and all those interested in the field of hydroinformatics.

**Applied Evolutionary Algorithms in Java** Robert Ghanea-Hercock, 2013-03-20 Genetic algorithms provide a powerful range of methods for solving complex engineering search and optimization algorithms. Their power can also lead to difficulty for new researchers and students who wish to apply such evolution based methods. *Applied Evolutionary Algorithms in Java* offers a practical hands on guide to applying such algorithms to engineering and scientific problems. The concepts are illustrated through clear examples ranging from simple to more complex problems, domains all based on real world industrial problems. Examples are taken from image processing, fuzzy logic control systems, mobile robots and telecommunication network optimization problems. The JAVA based toolkit provides an easy to use and essential visual interface with integrated graphing and analysis tools. Topics and features include: inclusion of a complete JAVA toolkit for exploring evolutionary algorithms, strong use of visualization techniques to increase understanding, coverage of all major evolutionary algorithms in common usage, broad range of industrially based example applications, includes examples and an appendix based on fuzzy logic.

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