

# JOURNAL OF SOFT COMPUTING AND COMPUTER APPLICATIONS

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# Journal Of Soft Computing And Applications

**Ram, Mangey, Davim, J. Paulo**



## **Journal Of Soft Computing And Applications:**

**Soft Computing And Its Applications** Rafik Aziz Aliev, Rashad Rafiq Aliyev, 2001-09-06 The concept of soft computing is still in its initial stages of crystallization Presently available books on soft computing are merely collections of chapters or articles about different aspects of the field This book is the first to provide a systematic account of the major concepts and methodologies of soft computing presenting a unified framework that makes the subject more accessible to students and practitioners Particularly worthy of note is the inclusion of a wealth of information about neuro fuzzy neuro genetic fuzzy genetic and neuro fuzzy genetic systems with many illuminating applications and examples **Soft Computing**

**Applications and Techniques in Healthcare** Ashish Mishra, G. Suseendran, Trung-Nghia Phung, 2020-10-09 This book provides insights into contemporary issues and challenges in soft computing applications and techniques in healthcare It will be a useful guide to identify categorise and assess the role of different soft computing techniques for disease diagnosis and prediction due to technological advancements The book explores applications in soft computing and covers empirical properties of artificial neural network ANN evolutionary computing fuzzy logic and statistical techniques It presents basic and advanced concepts to help beginners and industry professionals get up to speed on the latest developments in soft computing and healthcare systems It incorporates the latest methodologies and challenges facing soft computing examines descriptive predictive and social network techniques and discusses analytics tools and their role in providing effective solutions for science and technology The primary users for the book include researchers academicians postgraduate students specialists and practitioners Dr Ashish Mishra is a professor in the Department of Computer Science and Engineering Gyan Ganga Institute of Technology and Sciences Jabalpur Madhya Pradesh India He has contributed in organising the INSPIRE Science Internship Camp He is a member of the Institute of Electrical and Electronics Engineers and is a life member of the Computer Society of India His research interests include the Internet of Things data mining cloud computing image processing and knowledge based systems He holds nine patents in Intellectual Property India He has authored four books in the areas of data mining image processing and LaTeX Dr G Suseendran is an assistant professor Department of Information Technology School of Computing Sciences Vels Institute of Science Technology Advanced Studies VISTAS Chennai Tamil Nadu India His research interests include ad hoc networks the Internet of Things data mining cloud computing image processing knowledge based systems and Web information exploration He has published more than 75 research papers in various international journals such as Science Citation Index Springer Book Chapter Scopus IEEE Access and UGC referred journals Prof Trung Nghia Phung is an associate professor and Head of Academic Affairs Thai Nguyen University of Information and Communication Technology ICTU He has published more than 60 research papers His main research interest lies in the field of speech audio and biomedical signal processing He serves as a technical committee program member track chair session chair and reviewer of many international conferences and journals He was a co Chair of the

International Conference on Advances in Information and Communication Technology 2016 ICTA 2016 and a Session Chair of the 4th International Conference on Information System Design and Intelligent Applications INDIA 2017     **Soft**

**Computing Applications** Kanad Ray, Millie Pant, Anirban Bandyopadhyay, 2018-03-29 This book provides a reference guide for researchers scientists and industrialists working in the area of soft computing and highlights the latest advances in and applications of soft computing techniques in multidisciplinary areas Gathering papers presented at the International Conference on Soft Computing Theories and Applications SoCTA 2016 which was held in Jaipur Rajasthan India on December 28 30 2016 it focuses on applying soft computing to solve real life problems arising in various domains from medical and healthcare to supply chain management image processing and cryptanalysis The term soft computing represents an umbrella term for computational techniques like fuzzy logic neural networks and nature inspired algorithms In the past few decades there has been an exponential rise in the application of soft computing techniques to address complex and intricate problems in diverse spheres of life The versatility of these techniques has made them a favourite among scientists and researchers alike     Soft Computing Techniques and Applications in Mechanical Engineering Ram, Mangey, Davim, J. Paulo, 2017-12-29

The evolution of soft computing applications has offered a multitude of methodologies and techniques that are useful in facilitating new ways to address practical and real scenarios in a variety of fields In particular these concepts have created significant developments in the engineering field Soft Computing Techniques and Applications in Mechanical Engineering is a pivotal reference source for the latest research findings on a comprehensive range of soft computing techniques applied in various fields of mechanical engineering Featuring extensive coverage on relevant areas such as thermodynamics fuzzy computing and computational intelligence this publication is an ideal resource for students engineers research scientists and academicians involved in soft computing techniques and applications in mechanical engineering areas     *Soft Computing*

*Applications for Database Technologies* K. Anbumani, R. Nedunchezian, 2010-01-01 This book investigates the advent of soft computing and its applications in database technologies Provided by publisher     **Soft Computing Applications for**

**Renewable Energy and Energy Efficiency** Cascales, Maria del Socorro García, Lozano, Juan Miguel Sánchez, Arredondo, Antonio David Masegosa, Corona, Carlos Cruz, 2014-10-31 As the climate and environment continue to fluctuate researchers are urgently looking for new ways to preserve our limited resources and prevent further environmental degradation The answer can be found through computer science a field that is evolving at precisely the time it is needed most Soft Computing Applications for Renewable Energy and Energy Efficiency brings together the latest technological research in computational intelligence and fuzzy logic as a way to care for our environment This reference work highlights current advances and future trends in environmental sustainability using the principles of soft computing making it an essential resource for students researchers engineers and practitioners in the fields of project engineering and energy science     Soft Computing

Applications Valentina Emilia Balas, Janos Fodor, Annamária R. Várkonyi-Kóczy, Jozsef Dombi, Lakhmi C Jain, 2012-10-31 This

volume contains the Proceedings of the 5th International Workshop on Soft Computing Applications SOFA 2012 The book covers a broad spectrum of soft computing techniques theoretical and practical applications employing knowledge and intelligence to find solutions for world industrial economic and medical problems The combination of such intelligent systems tools and a large number of applications introduce a need for a synergy of scientific and technological disciplines in order to show the great potential of Soft Computing in all domains The conference papers included in these proceedings published post conference were grouped into the following area of research Soft Computing and Fusion Algorithms in Biometrics Fuzzy Theory Control and Applications Modelling and Control Applications Steps towards Intelligent Circuits Knowledge Based Technologies for Web Applications Cloud Computing and Security Algorithms Computational Intelligence for Biomedical Applications Neural Networks and Applications Intelligent Systems for Image Processing Knowledge Management for Business Process and Enterprise Modelling The combination of intelligent systems tools and a large number of applications introduce a need for a synergy of scientific and technological disciplines in order to show the great potential of Soft Computing in all domains

Problem Solving and Uncertainty Modeling through Optimization and Soft Computing Applications Saxena, Pratiksha, Singh, Dipti, Pant, Millie, 2016-03-01 Optimization techniques have developed into a modern day solution for real world problems in various industries As a way to improve performance and handle issues of uncertainty optimization research becomes a topic of special interest across disciplines Problem Solving and Uncertainty Modeling through Optimization and Soft Computing Applications presents the latest research trends and developments in the area of applied optimization methodologies and soft computing techniques for solving complex problems Taking a multi disciplinary approach this critical publication is an essential reference source for engineers managers researchers and post graduate students

**Computational Intelligence and Soft Computing Applications in Healthcare Management Science** Gul, Muhammet, Celik, Erkan, Mete, Suleyman, Serin, Faruk, 2020-03-06 In today s modernized world the field of healthcare has seen significant practical innovations with the implementation of computational intelligence approaches and soft computing methods These two concepts present various solutions to complex scientific problems and imperfect data issues This has made both very popular in the medical profession There are still various areas to be studied and improved by these two schemes as healthcare practices continue to develop Computational Intelligence and Soft Computing Applications in Healthcare Management Science is an essential reference source that discusses the implementation of soft computing techniques and computational methods in the various components of healthcare telemedicine and public health Featuring research on topics such as analytical modeling neural networks and fuzzy logic this book is ideally designed for software engineers information scientists medical professionals researchers developers educators academicians and students

Soft Computing and Applications Valentina Emilia Balas, Janos L. Fodor, Annamária R. Várkonyi-Kóczy, Institute of Electrical and Electronics Engineers, 2008

Soft Computing in Industrial Applications Yukinori Suzuki, Seppo J. Ovaska, Takeshi

Furuhashi,Rajkumar Roy,Yasuhiko Dote,2012-12-06 This book contains recent theoretical innovations and a comprehensive collection of industrial applications in the emerging field of Soft Computing Soft computing is a new form of artificial intelligence and it consists of four core methodologies Fuzzy Computing Neuro Computing Evolutionary Computation and Probabilistic Computing These individual techniques are clearly complementary or synergistic rather than competitive Therefore it is a common practice to combine two or three methodologies when solving complex problems Also the systematic fusion of soft computing and hard computing is a highly potential alternative to be considered Soft computing methodologies are suitable for various real world applications because the available information and system knowledge are often imprecise uncertain or partially even incorrect To handle such demanding conditions and obtain the required robustness with pure hard computing would typically be either very difficult or expensive This book is a unique collection of technical articles providing a thorough overview of the state of the art theory and industrial applications The core articles on evolutionary computation fuzzy computing and neuro computing are of particular interest to researchers and practicing engineers

Applied Soft Computing Samarjeet Borah,Ranjit Panigrahi,2022-02-02 This new volume explores a variety of modern techniques that deal with estimated models and give resolutions to complex real life issues Soft computing has played a crucial role not only with theoretical paradigms but is also popular for its pivotal role for designing a large variety of expert systems and artificial intelligence based applications Involving the concepts and practices of soft computing in conjunction with other frontier research domains this book begins with the basics and goes on to explore a variety of modern applications of soft computing in areas such as approximate reasoning artificial neural networks Bayesian networks big data analytics bioinformatics cloud computing control systems data mining functional approximation fuzzy logic genetic and evolutionary algorithms hybrid models machine learning metaheuristics neuro fuzzy system optimization randomized searches and swarm intelligence This book will be helpful to a wide range of readers who wish to learn applications of soft computing approaches It will be useful for academicians researchers students and machine learning experts who use soft computing techniques and algorithms to develop cutting edge artificial intelligence based applications

**Practical Applications of Soft Computing in Engineering** Sung-Bae Cho,2001 Soft computing has been presented not only with the theoretical developments but also with a large variety of realistic applications to consumer products and industrial systems Application of soft computing has provided the opportunity to integrate human like vagueness and real life uncertainty into an otherwise hard computer program This book highlights some of the recent developments in practical applications of soft computing in engineering problems All the chapters have been sophisticatedly designed and revised by international experts to achieve wide but in depth coverage

**Special Issue: Soft Computing and Intelligent Systems: Tools, Techniques and Applications** Sabu M. Thampi,El-Sayed M. El-Alfy,2017 *Soft Computing Applications* Andrea Bonarini,Francesco Masulli,Gabriella Pasi,2013-03-20 The papers collected in this book are concerned with the application of the so called soft

computing techniques to the aim of defining flexible systems The topics covered witness the actual research trend towards an integration of distinct formal techniques for defining flexible systems The contributions in this volume mainly concern the definition of systems in several application fields such as image processing control asset allocation medicine time series forecasting qualitative modeling support to design reliability analysis diagnosis filtering data analysis land mines detection and so forth The papers presented in this volume are organized into three main thematic sections Fuzzy Systems Neural Networks and Genetic and Evolutionary Algorithms although as outlined before some works employ more than one technique from these fields

*Soft Computing Applications* Valentina Emilia Balas, Lakhmi C. Jain, Marius Mircea Balas, Shahnaz N. Shahbazova, 2020-08-17 This book presents the proceedings of the 8th International Workshop on Soft Computing Applications SOFA 2018 held on 13-15 September 2018 in Arad Romania The workshop was organized by Aurel Vlaicu University of Arad in conjunction with the Institute of Computer Science Iasi Branch of the Romanian Academy IEEE Romanian Section Romanian Society of Control Engineering and Technical Informatics Arad Section General Association of Engineers in Romania Arad Section and BTM Resources Arad The papers included in these proceedings published post conference cover the research including Knowledge Based Technologies for Web Applications Cloud Computing Security Algorithms and Computer Networks Business Process Management Computational Intelligence in Education and Modelling and Applications in Textiles and many other areas related to the Soft Computing The book is directed to professors researchers and graduate students in area of soft computing techniques and applications

**Soft Computing: Methodologies and Applications** Frank Hoffmann, Mario Köppen, Frank Klawonn, Rajkumar Roy, 2006-05-21 The series of Online World Conferences on Soft Computing WSC is organized by the World Federation of Soft Computing WFSC and has become an established annual event in the academic calendar and was already held for the 8th time in 2003 Starting as a small workshop held at Nagoya University Japan in 1994 it has turned to the premier online event on soft computing in industrial applications It has been hosted by the universities of Granada Spain Fraunhofer Gesellschaft Berlin Cranfield University Helsinki University of Technology and Nagoya University The goal of WFSC is to promote soft computing across the world by using the internet as a forum for virtual technical discussion and publishing at no cost to authors and participants The official journal of the World Federation on Soft Computing is the journal Applied Soft Computing The 8th WSC Conference WSC8 took place from September 29th to October 10th 2003 Registered participants had the opportunity to follow and discuss the online presentations of authors from all over the world Out of more than 60 submissions the program committee had accepted 27 papers for oral presentation at WSC8

*Soft Computing Applications in Industry* Bhanu Prasad, 2008-02-13 Soft computing techniques play a vital role in the industry This book presents several important papers presented by some of the well known scientists from all over the globe The main techniques of soft computing presented include ant colony optimization artificial immune systems artificial neural networks Bayesian models The book includes

various examples and application domains such as bioinformatics detection of phishing attacks and fault detection of motors

**Journal of analysis and its application** ,2001      *Soft Computing Applications* Valentina Emilia Balas,Lakhmi C. Jain,Marius Mircea Balas,2017-08-31 These two volumes constitute the Proceedings of the 7th International Workshop on Soft Computing Applications SOFA 2016 held on 24 26 August 2016 in Arad Romania This edition was organized by Aurel Vlaicu University of Arad Romania University of Belgrade Serbia in conjunction with the Institute of Computer Science Iasi Branch of the Romanian Academy IEEE Romanian Section Romanian Society of Control Engineering and Technical Informatics SRAIT Arad Section General Association of Engineers in Romania Arad Section and BTM Resources Arad The soft computing concept was introduced by Lotfi Zadeh in 1991 and serves to highlight the emergence of computing methodologies in which the accent is on exploiting the tolerance for imprecision and uncertainty to achieve tractability robustness and lower costs Soft computing facilitates the combined use of fuzzy logic neurocomputing evolutionary computing and probabilistic computing leading to the concept of hybrid intelligent systems The rapid emergence of new tools and applications calls for a synergy of scientific and technological disciplines in order to reveal the great potential of soft computing in all domains The conference papers included in these proceedings published post conference were grouped into the following areas of research Methods and Applications in Electrical Engineering Knowledge Based Technologies for Web Applications Cloud Computing Security Algorithms and Computer Networks Biomedical Applications Image Text and Signal Processing Machine Learning and Applications Business Process Management Fuzzy Applications Theory and Fuzzy Control Computational Intelligence in Education Soft Computing Fuzzy Logic in Biometrics SCFLB Soft Computing Algorithms Applied in Economy Industry and Communication Technology Modelling and Applications in Textiles The book helps to disseminate advances in selected active research directions in the field of soft computing along with current issues and applications of related topics As such it provides valuable information for professors researchers and graduate students in the area of soft computing techniques and applications



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