Get Free A Belief Rule Based Expert System To Diagnose Measles

This book constitutes the refereed post-conference proceedings of the Second International Conference on Cyber Security and Computer Science, ICONCS 2020, held in Dhaka, Bangladesh, in February 2020. The 58 full papers were carefully reviewed and selected from 133 submissions. The papers detail new ideas, inventions, and application experiences to cyber security systems. They are organized in topical sections on optimization problems; image steganography and risk analysis on web applications; machine learning in disease diagnosis and monitoring; computer vision and image processing in health care; text and speech processing; machine learning in health care; blockchain applications; computer vision; future technology applications; computer networks; machine learning on imbalanced data; computer security; Bangla language processing.

Big Data

Integrated Uncertainty in Knowledge Modelling and Decision Making

FLINS, originally an acronym for Fuzzy Logic and Intelligent Technologies in Nuclear Science, is now extended to include Computational Intelligence for applied research. The contributions to the 12th of FLINS conference cover state-of-the-art research, development, and technology for computational intelligence systems, both from the foundations and the applications points-of-view.

Proceedings of the Second International Scientific Conference "Intelligent Information Technologies for Industry" (IITI'17)

The two-volume set LNAI 7894 and LNCS 7895 constitutes the refereed proceedings of the 12th International Conference on Artificial Intelligence and Soft Computing, ICAISC 2013, held in Zakopane, Poland in June 2013. The 112 revised full papers presented together with one invited paper were carefully reviewed and selected from 274 submissions. The 57 papers included in the first volume are organized in the following topical sections: neural networks and their applications; fuzzy systems and their applications; pattern classification; and computer vision, image and speech analysis.

Neural Information Processing

This book takes a deep dive into ubiquitous computing for applications in health, business, education, tourism, and transportation. The rich interdisciplinary contents of the book appeal to readers from diverse disciplines who aspire to create new and innovative research initiatives and applications in ubiquitous computing. Topics include condition monitoring and diagnostics; multi-objective optimization in design, multi-objective optimization of machining parameters, and more. The book benefits researchers, advanced students, as well as practitioners interested in applications of ubiquitous computing. Features practical, tested applications in ubiquitous computing Includes applications such as health, business, education, electronics, tourism, and transportation Applicable to researchers, academics, students, and professionals

Applications of Big Data Analytics

COVID-19: Prediction, Decision-Making, and its Impacts

Proceedings of the 9th International Conference on Computer Recognition Systems CORES 2015

Inventive Computation and Information Technologies

Artificial Intelligence Applications and Innovations

Fuzzy Expert Systems for Disease Diagnosis

Application in Ubiquitous Computing

Intelligent Systems

An Improved Belief Rule-Based Expert System with an Enhanced Learning Mechanism

Database and Expert Systems Applications

Uncertainty Modeling in Knowledge Engineering and Decision Making

Soft Computing in Economics and Finance

Fuzzy Systems: Concepts, Methodologies, Tools, and Applications

International Conference on Innovative Computing and Communications

Electronic Government and Electronic Participation

Developments of Artificial Intelligence Technologies in Computation and Robotics - Proceedings of The 14th International Flins Conference (Flins 2020)
Get Free A Belief Rule Based Expert System To Diagnose Measles

The challenge of diagnosing Measles quickly and accurately is crucial in public health. A belief rule-based expert system can function as quickly as possible to provide a diagnosis. Response to natural disasters (e.g., floods, earthquakes) or technological disasters (e.g., nuclear, chemical) as well as many businesses create some sort of disaster plan that make it possible to overcome the catastrophe and return to normal operations initiated when anything threatens to disrupt normal operations or puts the lives of human beings at risk. Governments on all levels are involved in disaster management, which is a process or strategy that is implemented when any type of catastrophic event takes place. The process may be initiated when anything threatens to disrupt normal operations or puts the lives of human beings at risk. Governments on all levels are involved in disaster management, which is a process or strategy that is implemented when any type of catastrophic event takes place.

Machine Learning, Big Data, and IoT for Medical Informatics

Staff Member at IBM Research – Almaden, San Jose, CA, USA.

Vice President for Academic Affairs and Research at the University of Modern Sciences, Dubai, UAE. Dr. Obinna Anya is a Research Fellow at the Bournemouth University and a Visiting Professor at the International College, Abu Dhabi, UAE. Dr. Hissam Tawfik is a Professor of Computer Science in the School of Computing, Creative Technologies & Engineering at Leeds Beckett University, UK. Dr. Mohammed Saeed is a Professor in Computing and currently is the Provost at Al Khawarizmi International College, Abu Dhabi, UAE. Dr. Mohammed M. Alani is an Associate Professor in Computer Engineering and currently is the Provost at Al Khawarizmi International College, Abu Dhabi, UAE. Dr. Obinna Anya is a Research Fellow at the Bournemouth University and a Visiting Professor at the International College, Abu Dhabi, UAE. Dr. Hissam Tawfik is a Professor of Computer Science in the School of Computing, Creative Technologies & Engineering at Leeds Beckett University, UK. Dr. Mohammed Saeed is a Professor in Computing and currently is the Provost at Al Khawarizmi International College, Abu Dhabi, UAE. Dr. Mohammed M. Alani is an Associate Professor in Computer Engineering and currently is the Provost at Al Khawarizmi International College, Abu Dhabi, UAE. Dr. Obinna Anya is a Research Fellow at the Bournemouth University and a Visiting Professor at the International College, Abu Dhabi, UAE. Dr. Hissam Tawfik is a Professor of Computer Science in the School of Computing, Creative Technologies & Engineering at Leeds Beckett University, UK. Dr. Mohammed Saeed is a Professor in Computing and currently is the Provost at Al Khawarizmi International College, Abu Dhabi, UAE. Dr. Mohammed M. Alani is an Associate Professor in Computer Engineering and currently is the Provost at Al Khawarizmi International College, Abu Dhabi, UAE.

This timely text/reference reviews the state of the art of big data analytics, with a particular focus on practical applications. An authoritative selection of leading international researchers present detailed analyses of existing trends for storing and analyzing big data, techniques for educational data mining and learning analytics, and introduces a scalable MapReduce graph partitioning approach for big data analytics application for sleep apnea detection, and a novel pathway for diagnostic models of headache disorders. Reviews high degree vertices Presents a multivariate and dynamic data representation model for the visualization of healthcare data, and big data analytics methods for software reliability assessment. This practically-focused volume is an invaluable resource for all researchers, academics, data scientists and business professionals involved in the planning, designing, and implementation of big data analytics projects. Dr. Mohammed M. Alani is an Associate Professor in Computer Engineering and currently is the Provost at Al Khawarizmi International College, Abu Dhabi, UAE. Dr. Obinna Anya is a Research Fellow at the Bournemouth University and a Visiting Professor at the International College, Abu Dhabi, UAE. Dr. Hissam Tawfik is a Professor of Computer Science in the School of Computing, Creative Technologies & Engineering at Leeds Beckett University, UK. Dr. Mohammed Saeed is a Professor in Computing and currently is the Provost at Al Khawarizmi International College, Abu Dhabi, UAE.
Diagnose Measles

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artificial intelligence and machine learning; network, communication and security; computing science.

1 short paper were thoroughly reviewed and selected from 79 submissions. Papers are organised according to the topical sections on

Security, COMS2 2020, held in March 2020. Due to the COVID-19 pandemic the conference was held virtually. The 26 full papers

Uncertainty Modeling in Knowledge Engineering and Decision Making

cloud computing, machine learning, intelligent software, robotics, data science, data security, big data analytics, and signal and natural

offer valuable reference material for advanced research. The topics covered include collective intelligence, soft computing, optimization,

South Asian University (SAU) in India. These proceedings present novel contributions in the areas of computational intelligence and

Intelligence (IJCACI 2020), organized by Daffodil International University (DIU) and Jahangirnagar University (JU) in Bangladesh and

way in which technology can enable and enhance public participation in government is of particular importance. This book presents the

Electronic media and ICT have become indispensable in the fields of public governance, policy-making and public service provision. E-

An Improved Belief Rule-Based Expert System with an Enhanced Learning Mechanism

positive cases from other similar and/or different manifestations, such as pneumonia, distributed healthcare support, and supply chains

available data (population) to predict who should be tested for COVID-19, for example, radiological image data to detect COVID-19

early prediction, its role for public health, detection of positive cases, drug analysis, and healthcare support. It mainly employs publicly

This book outlines artificial intelligence for COVID-19 issues that are ranging from prediction to decision-making for healthcare support

Intelligent Systems

of the Leontjev’s input-output problem in the interval setting.

nonlinear interval and fuzzy equations and systems of them. The developed new method allows the author to obtain an effective solution

of the Internal Rate of Return. In this book, this problem is solved using a new method which makes it possible to solve linear and

the application of soft computing method in economics and finance. An important problem of capital budgeting is the fuzzy evaluation

selection problem, stock screening and fuzzy logistic. It is well known that the best results in real-world applications can be obtained

as well and implemented to deal with some important real-world problems such as investment project’s evaluation, tool steel material

multiple criteria decision making is proposed which allows the author to reveal unsolved problems. The solutions of them are presented

Therefore, the economic and financial problems are multiple criteria ones. In this book, a new systematization of the problems of

and financial problems it that there are always at least two criteria to be taken into account: profit maximization and risk minimization.

technology, interactive fuzzy interval reasoning for smart web shopping, fuzzy scheduling and logistic. An essential feature of economic

Currently the methods of Soft Computing are successfully used for risk analysis in: budgeting, e-commerce development, portfolio

Applications in Ubiquitous Computing

attempting to use probability as the mechanism for representing uncertainty in a rule-based system.

representations) none of them has been widely successful. This paper describes the current state of an ongoing research project which is

been developed for use in rule-based systems. However, for a variety of reasons (including the fact that there is little logical basis for the

making process) are not known with certainty and consequently the inference procedures used in traditional rule-based systems are

based, the rule base is a useful step in the evolution of programming strategies. At the same time there has been a growing

growing commercial activity. This transition clearly indicates that the structure of a complex computer program enforced by a rule-

Rule-based expert systems have moved from a research activity in a small number of academic computer science departments to a

authors.
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AIAI 2010 is an annual conference that focuses on Artificial Intelligence Applications and Innovations. It is organized by the International Federation for Information Processing Technical Committee on Artificial Intelligence (TC12). AIAI 2010 was held in Larnaca, Cyprus, during October 6–7, 2010. The conference was co-organized by the University of Cyprus and the Cyprus University of Technology.

The general focus of the AIAI conference is to provide insights on how Artificial Intelligence may be applied in solving challenging computational problems. Solutions to such problems are now feasible using advances and innovations from the area of statistical implicative analysis (SIA). Contributions range from psychological and pedagogical research, bioinformatics, knowledge management, and data mining. This volume collects significant research contributions of several rather distinct disciplines that converge in the application of Artificial Intelligence.

The abundance of information and increase in computing power currently enable researchers to tackle highly complicated and diverse problems. Solutions to such problems are now feasible using advances and innovations from the area of statistical implicative analysis (SIA). Contributions range from psychological and pedagogical research, bioinformatics, knowledge management, and data mining. This volume collects significant research contributions of several rather distinct disciplines that converge in the application of Artificial Intelligence.

Inventive Computation and Information Technologies

This book constitutes the refereed proceedings of the 9th International Conference on Computer Recognition Systems CORES 2015 held in Vila Real, Portugal, in September 2015. The 23 revised full papers presented were carefully reviewed and selected from 54 submissions. This year CORES 2015 provides opportunities for presenting interesting new research results, facilitating interdisciplinary discussions, and leading to knowledge transfer and industrial applications. The main objective of this book is to gather a number of peer-reviewed high quality contributions in the relevant knowledge for intelligent systems and data mining, applications in economic and management, industrial engineering and other related topic areas. The focus is especially on those chapters that provide theoretical/analytical solutions to the problems of real interest in industrial applications. The main objective of this book is to gather a number of peer-reviewed high quality contributions in the relevant knowledge for intelligent systems and data mining, applications in economic and management, industrial engineering and other related topic areas. The focus is especially on those chapters that provide theoretical/analytical solutions to the problems of real interest in industrial applications.

Intelligent Decision Making Systems

This book constitutes the refereed proceedings of the 10th International Conference on Computer Recognition Systems CORES 2016 held in Triratna, Italy, in September 2016. The 20 revised full papers presented were carefully reviewed and selected from 54 submissions. The papers are organized in topical sections on Data Mining Systems, Parallelism and Concurrency, Algorithms, Information Retrieval, Query Processing and Optimization.

Query Planning, Data Warehousing and Decision Support Systems, Temporal, Spatial and High Dimensional Databases, Data Mining

This book constitutes the refereed proceedings of the 21st International Conference on Knowledge-Based and Intelligent Information and Engineering Systems, KES 2017 held in Manchester, UK, in September 2017. The 254 revised full papers presented were carefully reviewed and selected from 542 submissions. This year KES 2017 provides opportunities for presenting interesting new research results, facilitating interdisciplinary discussions, and leading to knowledge transfer and industrial applications.
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Artificial Intelligence Applications and Innovations

Artificial intelligence (AI) has become pervasive in most areas of research and applications. While computation can significantly reduce mental efforts for complex problem solving, effective computer algorithms allow continuous improvement of AI tools to handle complexity—in both time and memory requirements—for machine learning in large datasets. Meanwhile, data science is an evolving scientific discipline that strives to overcome the hindrance of traditional skills that are too limited to enable scientific discovery when leveraging research outcomes. Solutions to many problems in medicine and life science, which cannot be answered by these conventional approaches, are urgently needed for society. This edited book attempts to report recent advances in the complementary domains of AI, computation, and data science with applications in medicine and life science. The benefits to the reader are manifold as researchers from similar or different fields can be aware of advanced developments and novel applications that can be useful for either immediate implementations or future scientific pursuit. Features: Considers recent advances in AI, computation, and data science for solving complex problems in medicine, physiology, biology, chemistry, and biochemistry Provides recent developments in three evolving key areas and their complementary combinations: AI, computation, and data science Reports on applications in medicine and physiology, including cancer, neuroscience, and digital pathology Examines applications in life science, including systems biology, biochemistry, and even food technology This unique book, representing research from a team of international contributors, has not only real utility in academia for those in the medical and life sciences communities, but also a much wider readership from industry, science, and other areas of technology and education.

Fuzzy Expert Systems for Disease Diagnosis

The development of fuzzy expert systems has provided new opportunities for problem solving amidst uncertainties. The medical field, in particular, has benefitted tremendously from advancing fuzzy system technologies. Fuzzy Expert Systems for Disease Diagnosis highlights the latest research and developments in fuzzy rule-based methods used in the detection of medical complications and illness. Offering emerging solutions and practical applications, this timely publication is designed for use by researchers, academicians, and students, as well as practitioners in the medical field.