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this book constitutes the thoroughly refereed proceedings of the 11th international symposium on intelligence computation and applications isica 2019 held in guangzhou china in november 2019 the 65 papers presented were carefully reviewed and selected from the total of 112 submissions this volume features the most up to date research in evolutionary algorithms parallel computing and quantum computing evolutionary multi objective and dynamic optimization intelligent multimedia systems virtualization and ai applications smart scheduling intelligent control big data and cloud computing deep learning and hybrid machine learning systems the papers are organized according to the following topical sections new frontier in evolutionary algorithms evolutionary multi objective and dynamic optimization intelligent multimedia systems virtualization and ai applications smart scheduling intelligent control big data and cloud computing statistical learning

the contributed volume aims to explicate and address the difficulties and challenges for the seamless integration of two core disciplines of computer science i e

computational intelligence and data mining data mining aims at the automatic discovery of underlying non trivial knowledge from datasets by applying intelligent analysis techniques the interest in this research area has experienced a considerable growth in the last years due to two key factors a knowledge hidden in organizations databases can be exploited to improve strategic and managerial decision making b the large volume of data managed by organizations makes it impossible to carry out a manual analysis the book addresses different methods and techniques of integration for enhancing the overall goal of data mining the book helps to disseminate the knowledge about some innovative active research directions in the field of data mining machine and computational intelligence along with some current issues and applications of related topics

intelligent recognition methods have recently proven to be indispensable in a variety of modern industries including computer vision robotics medical imaging visualization and the media furthermore they play a critical role in the traditional fields such as character recognition natural language processing and personal identification this cutting edge book draws together the latest findings of industry experts and researchers from around the globe it is a timely guide for all those require comprehensive state of the art advice on the present status and future potential of intelligent recognition technology computer aided intelligent recognition techniques and applications provides the user community with systems and tools for application in a very wide range of areas including it education security banking police postal services manufacturing mining medicine multimedia entertainment communications data visualization knowledge extraction pattern classification and virtual reality disseminates information in a plethora of disciplines for example pattern recognition ai image processing computer vision and graphics neural networks cryptography fuzzy logic databases evolutionary algorithms shape and numerical analysis illustrates all theory with real world examples and case studies this valuable resource is essential reading for computer scientists engineers and consultants requiring up to date comprehensive guidance on the latest developments in computer aided intelligent recognition techniques and applications its detailed practical approach will be of interest to senior undergraduate and graduate students as well as researchers and industry experts in the field of intelligent recognition

this book is a detailed reference guide on deep learning and its applications it aims to provide a basic understanding of deep learning and its different architectures that are applied to process images speech and natural language it explains basic concepts and many modern use cases through fifteen chapters contributed by computer science academics and researchers by the end of the book the reader will become familiar with different deep learning approaches and models and understand how to implement various deep learning algorithms using multiple frameworks and libraries this book is divided into three parts the first part explains the basic operating understanding history evolution and challenges associated with deep learning the basic concepts of mathematics and the hardware requirements for deep learning implementation and some of its popular frameworks for medical applications are also covered the second part is dedicated to sentiment analysis using deep learning and machine learning techniques this book section covers the experimentation and application of deep learning techniques and architectures in real world applications it details the salient approaches issues and challenges in building ethically aligned machines an approach inspired by traditional eastern thought and wisdom is also presented the final part covers artificial intelligence approaches used to explain the machine learning models that enhance transparency for the benefit of users a review and detailed description of the use of knowledge

graphs in generating explanations for black box recommender systems and a review of ethical system design and a model for sustainable education is included in this section an additional chapter demonstrates how a semi supervised machine learning technique can be used for cryptocurrency portfolio management the book is a timely reference for academicians professionals researchers and students at engineering and medical institutions working on artificial intelligence applications

this book presents part of the im3f 2020 proceedings from the mechatronics track it highlights key challenges and recent trends in mechatronics engineering and technology that are non trivial in the age of industry 4 0 it discusses traditional as well as modern solutions that are employed in the multitude spectra of mechatronics based applications the readers are expected to gain an insightful view on the current trends issues mitigating factors as well as solutions from this book

analysis of big data is becoming a hot stuff for engineers researchers and business enterprises now a days it refers to the process of collecting organizing and analyzing large sets of data to discover hidden patterns and other useful information not solely can massive information analytics assist to know the knowledge contained inside the information however it will additionally facilitate to determine the information that is most significant to the business and future business choices cloud computing is the type of computing that relies on sharing computing resources rather than having local servers or personal devices to handle applications cloud computing aims at applying traditional supercomputing or high performance computing power to perform tens of trillions of computations per second in consumer oriented applications such as financial portfolios to deliver personalized information to provide data storage etc since big data places on networks storage and servers requirements arise to analyse this huge amount data on the cloud even cloud providers also welcome this new business opportunity of supporting big data analysis in the cloud but in the same time they are facing various architectural and technical hurdles therefore big data analysis in cloud attracting many researchers now a days the national conference on communication cloud and big data ccb 2014 organized by department of information technology smit has received keen response from researchers across the country each paper went through reviews process and finally 30 papers were selected for presentation the papers are an even mix of research topics from the fields of communication cloud and big data and its applications in various fields of engineering and science

ecwac2012 is an integrated conference devoted to electronic commerce application and communication in the this proceedings you can find the carefully reviewed scientific outcome of the second international conference on electronic commerce application and communication ecwac 2012 held at march 17 18 2012 in wuhan china bringing together researchers from all around the world in the field

a multicore platform uses distributed or parallel computing in a single computer and this can be used to assist image processing algorithms in reducing computational complexities by implementing this novel approach the performance of imaging video and vision algorithms would improve leading the way for cost effective devices like intelligent surveillance cameras multi core computer vision and image processing for intelligent applications is an essential publication outlining the future research opportunities and emerging technologies in the field of image processing and the ways multi core processing can further the field this publication is ideal for policy makers researchers technology developers and students of it

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license plate recognition or lpr is an image processing technology used to identify vehicles by their license plates this technology is used in various applications involving security traffic law enforcement public safety and transportation sectors it mainly uses software code that enables computer systems to read automatically the registration number license number of vehicles from digital pictures the project explains various algorithms that are exercised to recognize the characters present on the california car license plate one of them is template matching algorithm that has an ability to store the information of a particular size template in the form of four 16 bit vectors and apply it for recognizing the characters this feature of the algorithm mentioned above helped in achieving faster character recognition of the license plate this process of character recognition consists of steps like image processing defragmentation resizing and character localization that are required to be performed on the image in order for template matching to be done the final goal of the project was to simulate these algorithms initially on microsoft visual studio using open cv libraries once this was established the design was transferred on the ti s video development platform dm6437 dvdp for testing and performance analysis the earlier mentioned algorithmic steps were written in c programming language and demonstration of the project was successfully presented on the ti s dsp board evm320dm6437

this collection meets the need for quality authoritative research in this domain with an authoritative collection studies from the electronic government researchers worldwide enable libraries in academic government and other settings to provide a collection on topics like digital government electronic justice government to government information policy and cyber infrastructure research and methodologies provided by publisher

this book presents a collection of tips focused around six themes in teaching techniques teachers share ways in which they have increased their effectiveness and enhanced their interaction with students content provides methods of delivering art science reading and other subjects in ways that will inspire and motivate students getting organized tackles the time drain related to paperwork offering ways to creatively organize paperwork and materials so that teachers can spend more time on students managing your classroom provides tips to help teachers strike the right balance between freedom and discipline to achieve a well run classroom school relationships presents tips on working collaboratively with parents colleagues and a range of other individuals to build a strong network of support in using technology teachers share ways the have used digital photography the internet and other tools to improve student learning next to each tip is a small checkbox for marking off effective suggestions sm

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