
Automatic Number Plate Recognition Systems Using Matlab

Proceedings of the 2nd International Conference on Computational and Bio Engineering

Automatic Number Plate Recognition

ICT for Intelligent Systems

ICT and Critical Infrastructure: Proceedings of the 48th Annual Convention of Computer Society of India- Vol I

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Information and Communication Technology for Development for Africa

Digital Geography

Sixth International Conference on Intelligent Computing and Applications

Proceedings of the 12th International Conference on Soft Computing for Problem Solving

ICT Systems and Sustainability

Smart and Sustainable Intelligent Systems

Advances in Data and Information Sciences
Trends in Applied Intelligent Systems
Confidential Computing
Applications of Artificial Intelligence, Big Data and Internet of Things in Sustainable Development
Proceedings of the 10th National Technical Seminar on Underwater System Technology 2018
Computing, Analytics and Networks
Soft Computing: Theories and Applications
Advances in Artificial Systems for Logistics Engineering III
Image Processing and Intelligent Computing Systems
Toward an Optimized Neutrosophic k-Means With Genetic Algorithm for Automatic Vehicle License Plate Recognition (ONKM-AVLPR)
A Real-Time Implementation of License Plate Recognition (LPR) System
2021 9th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) (ICRITO)
2020 IEEE International Conference on Consumer Electronics Asia (ICCE Asia)
Information and Communication Technology for Sustainable Development
Autonomous and Connected Heavy Vehicle Technology
Smart Technologies in Data Science and Communication

*Automatic Number Plate
Recognition Systems
Using Matlab*

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CHAVEZ ATKINSON

Springer Nature

This book focuses on different algorithms and models related to AI, big data and IoT used for various domains. It enables the reader to have a broader and deeper understanding of several perspectives regarding the dynamics, challenges, and

opportunities for sustainable development using artificial intelligence, big data and IoT. Applications of Artificial Intelligence, Big Data and Internet of Things (IoT) in Sustainable Development focuses on IT-based advancements in multidisciplinary fields such as healthcare, finance, bioinformatics, industrial automation, and environmental science. The authors discuss the key issues of security, management, and the realization of possible solutions to hurdles in sustainable

development. The reader will master basic concepts and deep insights of various algorithms and models for various applications such as healthcare, finance, education, smart cities, smart cars, among others. Finally, the book will also examine the applications and implementation of big data IoT, AI strategies to facilitate the sustainable development goals set by the United Nations by 2030. This book is intended to help researchers, academics, and policymakers to analyze the

challenges and future aspects for maintaining sustainable development through IoT, big data, and AI.

Proceedings of the 2nd International Conference on Computational and Bio Engineering Springer Nature

This book gathers a collection of high-quality peer-reviewed research papers presented at the 3rd International Conference on Data and Information Sciences (ICDIS 2021), held at Raja Balwant Singh Engineering Technical Campus, Agra, India, on May 14 - 15, 2021. In chapters written by leading researchers, developers, and practitioner from academia and industry, it covers virtually all aspects of computational sciences and information security, including central topics like artificial intelligence, cloud computing, and big data. Highlighting the latest developments and technical solutions, it will show readers from the computer industry how to capitalize on key advances in next-generation computer and communication technology.

Automatic Number Plate Recognition CRC Press

Master's Thesis from the year 2010 in the

subject Engineering - Computer Engineering, grade: A+, Gandhi Institute of Engineering and Technology, language: English, abstract: With increasing number of population and higher rate of development the problem of road accident is also increasing rapidly. So the basic concept is to develop a model that can be useful as a security system in the society and can monitoring the vehicle speed. A License Plate Recognition (LPR) System is one kind of an Intelligent Transport monitoring System and is of considerable interest because of its potential applications in highway electronic toll collection and traffic monitoring systems. This type of applications puts high demands on the reliability of an LPR System. A lot of work has been done regarding LPR systems for Korean, Chinese, European and US license plates that generated many commercial products. However, little work has been done for Indian license plate recognition systems. The purpose of this thesis was to develop a real time application which recognizes license plates from cars at a gate, for example at the entrance of a parking area or a border crossing. The

system, based on regular PC with video camera, catches video frames which include a visible car license plate and processes them. Once a license plate is detected, its digits are recognized, displayed on the User Interface or checked against a database. The focus is on the design of algorithms used for extracting the license plate from a single image, isolating the characters of the plate and identifying the individual characters. The proposed system has been implemented using Vision Assistant 7,1 and LabVIEW 7,1. The performance of the system has been investigated on real images of about 100 vehicles. The recognition of about 98% vehicles shows that the system is quite efficient.

ICT for Intelligent Systems Springer

The increase in computing power and sensor data has driven Information Technology on end devices, such as smart phones or automobiles. The widespread application of IT across the globe includes manufacturing, engineering, retail, e-commerce, health care, education, financial services, banking, space exploration, politics (to help predict the sentiments of voter demographics), etc.

The papers in this conference proceeding examine and discuss various interdisciplinary researches that could accelerate the advent of Information Technology.

ICT and Critical Infrastructure: Proceedings of the 48th Annual Convention of Computer Society of India- Vol I One Billion Knowledgeable

In this globally competitive environment scientific analysis of system under study is the key issues in attaining market leadership This competitive advantage through quality process, product and services in the market place is possible through the development of knowledge bases and easy access to structured databases on systems, processes and technology based on quantitative study Further due to ever emerging new trends of fashion and taste as well as technology, predicting future with certainty can be the daydream This theme is most appropriate in the current context as well as in the future The Conference will not only take stock of trends and developments at the globally competitive environment, but will also provide future directions to young researchers and practitioners

Intelligent Sustainable Systems Springer Nature

This book presents high-quality research papers presented at 2nd International Conference on Smart Data Intelligence (ICSMDI 2022) organized by Kongunadu College of Engineering and Technology at Trichy, Tamil Nadu, India, during April 2022. This book brings out the new advances and research results in the fields of algorithmic design, data analysis, and implementation on various real-time applications. It discusses many emerging related fields like big data, data science, artificial intelligence, machine learning, and deep learning which have deployed a paradigm shift in various data-driven approaches that tends to evolve new data-driven research opportunities in various influential domains like social networks, healthcare, information, and communication applications.

Intelligent Computing Theories and Application Springer Science & Business Media

This book presents the peer-reviewed proceedings of the Sixth International Conference on Intelligent Computing and Applications (ICICA 2020), held at

Government College of Engineering, Keonjhar, Odisha, India, during December 22-24, 2020. The book includes the latest research on advanced computational methodologies such as neural networks, fuzzy systems, evolutionary algorithms, hybrid intelligent systems, uncertain reasoning techniques, and other machine learning methods and their applications to decision-making and problem-solving in mobile and wireless communication networks.

Intelligent Systems Design and Applications Springer Nature

The book proposes new technologies and discusses future solutions for ICT design infrastructures, and includes high-quality submissions presented at the Third International Conference on ICT for Sustainable Development (ICT4SD 2018), held in Goa, India on 30-31 August 2018. The conference stimulated cutting-edge research discussions among pioneering researchers, scientists, industrial engineers, and students from all around the world. Bringing together experts from different countries, the book focuses on innovative issues at an international level. Automatic Number Plate Recognition CRC

Press

Autonomous and Connected Heavy Vehicle Technology presents the fundamentals, definitions, technologies, standards and future developments of autonomous and connected heavy vehicles. This book provides insights into various issues pertaining to heavy vehicle technology and helps users develop solutions towards autonomous, connected, cognitive solutions through the convergence of Big Data, IoT, cloud computing and cognition analysis. Various physical, cyber-physical and computational key points related to connected vehicles are covered, along with concepts such as edge computing, dynamic resource optimization, engineering process, methodology and future directions. The book also contains a wide range of case studies that help to identify research problems and an analysis of the issues and synthesis solutions. This essential resource for graduate-level students from different engineering disciplines such as automotive and mechanical engineering, computer science, data science and business analytics combines both basic concepts and advanced level content from technical

experts. - Covers state-of-the-art developments and research in vehicle sensor technology, vehicle communication technology, convergence with emerging technologies, and vehicle software and hardware integration - Addresses challenges such as optimization, real-time control systems for distance and steering mechanism, and cognitive and predictive analysis - Provides complete product development, commercial deployment, technological and performing costs and scaling needs

Smart Data Intelligence Academic Press
This book constitutes the revised selected papers from the First International Conference on Computing, Analytics and Networks, ICAN 2017, held in Rajpura, India, in October 2017. The 20 revised full papers presented in this volume were carefully reviewed and selected from 56 submissions. They are organized in topical sections on Mobile Cloud Computing; Big Data Analytics; Secure Networks. Five papers in this book are available open access under a Creative Commons Attribution 4.0 International License via link.springer.com. For further details, please see the copyright page.

Advances in Computer Science for Engineering and Education Springer Nature

This three-volume set LNCS 10361, LNCS 10362, and LNAI 10363 constitutes the refereed proceedings of the 13th International Conference on Intelligent Computing, ICIC 2017, held in Liverpool, UK, in August 2017. The 221 full papers and 15 short papers of the three proceedings volumes were carefully reviewed and selected from 639 submissions. This second volume of the set comprises 74 papers. The papers are organized in topical sections such as Pattern Recognition; Image Processing; Virtual Reality and Human-Computer Interaction; Healthcare Informatics Theory and Methods; Genetic Algorithms; Blind Source Separation; Intelligent Fault Diagnosis; Machine Learning; Knowledge Discovery and Data Mining; Gene Expression Array Analysis; Systems Biology; Modeling, Simulation, and Optimization of Biological Systems; Intelligent Computing in Computational Biology; Computational Genomics; Computational Proteomics; Gene Regulation Modeling and Analysis; SNPs

and Haplotype Analysis; Protein-Protein Interaction Prediction; Protein Structure and Function Prediction; Next-Gen Sequencing and Metagenomics; Structure Prediction and Folding; Biomarker Discovery; Applications of Machine Learning Techniques to Computational Proteomics, Genomics, and Biological Sequence Analysis; Biomedical Image Analysis; Human-Machine Interaction: Shaping Tools Which Will Shape Us; Protein and Gene Bioinformatics: Analysis, Algorithms and Applications; Special Session on Computer Vision based Navigation; Neural Networks: Theory and Application.

Pattern Recognition and Artificial Intelligence Springer

This book features research papers presented at the 6th International Conference on Intelligent Sustainable Systems (ICISS 2023), held at SCAD College of Engineering and Technology, Tirunelveli, Tamil Nadu, India, during February 2-3, 2023. The book reports research results on the development and implementation of novel systems, technologies, and applications that focus on the advancement of sustainable living.

The chapters included in this book discuss a spectrum of related research issues such as applications of intelligent computing practices that can have ecological and societal impacts. Moreover, this book emphasizes on the state-of-the-art networked and intelligent technologies that are influencing a promising development in the direction of a long-term sustainable future. The book is beneficial for readers from both academia and industry.

Engineering Software for Modern Challenges GRIN Verlag

This book is a blueprint for developing an integrated parking plan. It explains how to determine parking supply and affect parking demand, as well as how to calculate parking facility costs. It also offers information about shared parking, parking maximums, financial incentives, tax reform, pricing methods, and other management techniques. What types of locations benefit from parking management? Places with perceived parking problems. Areas with rapidly expanding population, business activity, or traffic. Commercial districts and other places with compact land-use patterns.

Urban areas in need of redevelopment and infill. Places with high levels of walking or public transit or places that want to encourage those modes. Districts where parking problems hinder economic development. Areas with high land values Neighborhoods concerned with equity, including fairness to nondrivers. Places with environmental concerns. Unique landscapes or historic districts in need of preservation,"

Recent Trends in Computational Intelligence and Its Application Springer Nature

The book focuses on soft computing and its applications to solve real-world problems occurring in different domains ranging from medicine and healthcare, and supply chain management to image processing and cryptanalysis. It includes high-quality papers presented in the International Conference on Soft Computing: Theories and Applications (SoCTA 2017), organized by Bundelkhand University, Jhansi, India. Offering significant insights into soft computing for teachers and researchers alike, the book inspires more researchers to work in the field of soft computing.

Parking Management Best Practices

Springer Nature

The present paper proposes a new methodology for license plate (LP) recognition in the state of the art of image processing algorithms and an optimized neutrosophic set (NS) based on genetic algorithm (GA). First of all, we have performed some image processing techniques such as edge detection and morphological operations in order to utilize the (LP) localization.

Cognitive Informatics and Soft Computing

Springer Nature

What is Automatic Number Plate Recognition Automatic number-plate recognition is a technology that uses optical character recognition on images to read vehicle registration plates to create vehicle location data. It can use existing closed-circuit television, road-rule enforcement cameras, or cameras specifically designed for the task. ANPR is used by police forces around the world for law enforcement purposes, including checking if a vehicle is registered or licensed. It is also used for electronic toll collection on pay-per-use roads and as a method of cataloguing the movements of

traffic, for example by highways agencies.

How you will benefit (I) Insights, and validations about the following topics:

Chapter 1: Automatic number-plate recognition Chapter 2: Intelligent transportation system Chapter 3: Traffic enforcement camera Chapter 4: Electronic toll collection Chapter 5: Police car Chapter 6: Open road tolling Chapter 7: SPECS (speed camera) Chapter 8: Road speed limit enforcement in Australia Chapter 9: Roads Policing Unit Chapter 10: Video tolling (II) Answering the public top questions about automatic number plate recognition. (III) Real world examples for the usage of automatic number plate recognition in many fields. Who this book is for Professionals, undergraduate and graduate students, enthusiasts, hobbyists, and those who want to go beyond basic knowledge or information for any kind of Automatic Number Plate Recognition.

Communication and Computing

Systems Springer Nature

Organized by the IEEE Consumer Electronics Society and the Institute of Electronics and Information Engineers, ICCE Asia 2020 which will be held in the Grand Hilton Hotel, Seoul, Korea is an

event open to researchers and engineers from industry, research centres, and academia to exchange information and results related to consumer electronics (CE) The conference will feature outstanding keynote speakers, high quality tutorials, special sessions and peer reviewed papers It hopes to attract a global audience from industry and academia It is a perfect opportunity to promote affiliated company organization to an audience of world class researchers in the CE industry

Internet of Things, Smart Spaces, and Next Generation Networks and Systems

Springer

Automatic Number Plate Recognition One Billion Knowledgeable

Information and Communication Technology for Development for Africa

Automatic Number Plate Recognition This book presents best selected research papers presented at the 4th International Conference on Cognitive Informatics and Soft Computing (CISC 2021), held at Balasore College of Engineering & Technology, Balasore, Odisha, India, from 21-22 August 2021. It highlights, in particular, innovative research in the fields

of cognitive informatics, cognitive computing, computational intelligence, advanced computing, and hybrid intelligent models and applications. New algorithms and methods in a variety of fields are presented, together with solution-based approaches. The topics addressed include various theoretical aspects and applications of computer science, artificial intelligence, cybernetics, automation control theory, and software engineering.

Digital Geography Springer
This book is a collection of accepted papers that were presented at the International Conference on Communication and Computing Systems (ICCCS-2016), Dronacharya College of Engineering, Gurgaon, September 9–11, 2016. The purpose of the conference was to provide a platform for interaction between scientists from industry, academia and other areas of society to

discuss the current advancements in the field of communication and computing systems. The papers submitted to the proceedings were peer-reviewed by 2-3 expert referees. This volume contains 5 main subject areas: 1. Signal and Image Processing, 2. Communication & Computer Networks, 3. Soft Computing, Intelligent System, Machine Vision and Artificial Neural Network, 4. VLSI & Embedded System, 5. Software Engineering and Emerging Technologies.

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