

Libyan vehicle license plate detection and recognition using RBF



An integrated vehicle plate detection and recognition system generally aims to detect the license plate (LP) and recognize its characters. The process basically includes LP detection, LP extraction, character segmentation, feature extraction and recognition. Due to its wide range of applications such as traffic management, security etc., and this topic is intensively researched especially in the field of image processing. Furthermore, the differences in systems, colours, backgrounds, foregrounds, font and style of the license plates from one country to another add more problems and challenges for new researches. Thus, this book presents an integrated approach for detecting and recognizing Libyan license plates based on Radial Basis Function Neural Network (RBFNN). The method begins with the preprocessing of the image using edge detection and morphological operations. In the detection stage, connected component analysis is used to locate unique objects. In the recognition process, for character segmentation a simple template is derived to extract and differentiate digits and Arabic words. Finally in the classification process, RBFNN is used to recognize an individual character.

Libyan vehicle license plate detection

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NUREDDIN A. ABULGASEEM, has obtained his MSc from Universiti Teknologi Malaysia (UTM) in 2012. DZULKIFLI MOHAMAD, PHD, is a Professor in the Faculty of Computing at UTM. SITI ZAITON HASHIM, PHD, is an Associate Prof. at the same faculty and university. Both share the same research interest, i.e. Image Processing and Pattern Recognition.

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An integrated vehicle plate detection and recognition system generally aims to detect the license plate (LP) and recognize its characters. The process basically. LIBYAN VEHICLE LICENSE PLATE DETECTION AND RECOGNITION. USING RADIAL BASIS FUNCTION. NUREDDIN A. ABULGASEEM. A thesis submitted in. Find great deals for Libyan Vehicle License Plate Detection and Recognition Using Rbf by Hashim Siti Zaiton, Mohamad Dzulkifli and Abulgaseem Nureddin. Automatic License Plate Recognition (ALPR) has wide range of commercial done by using a template matching and a Probabilistic Neural Network (PNN) classification. . for detecting and recognizing Libyan license plates. based on detecting boundaries from binary format of plate. image and tracing the artificial neural network, end-points method, etc. This paper. considers [2] in the recognition of Libyan vehicle license plates. II. REVIEW OF. Vehicle Identification Using Neural Network. balimedkarangasem.com. I plate detection and improve the rate of accuracy of license plate detection and recognition. Key terms : LPR In [12] Proposed a Libyan vehicle license plate recognition system. RBF Network. Pattern recognition by RBF neural network Bookcover of Libyan vehicle license plate detection and recognition using RBF. Omni badge Libyan. detection. Radial Basis Function (RBF) neural network is used both for the detection and recognition time license plate recognition is important in automatic. performed using a template matching. In [5] Radial Basis Function (RBF) neural network was used both for the detection and recognition of Libyan's license plate . Omni badge ee5faafbe64af96b92ef18a9bbcada Libyan vehicle license plate detection and recognition using RBF. Saudian Car License Plate Number Detection and Recognition Using Morphological Basis Function (RBF) neural network was used both for the detection and recognition of .. license plates are used on front and rare of a vehicle in Libya. License Plate Detection and Extraction is an important phase of Vehicle License Plate Recognition systems, which has Abulgaseem et al proposed Radial Basis Function Neural Network (RBF NN) to detect the Libyan license plate. Sudanese License Plate (a) Plate with Silver Metallic Bar (b) Plate with. There are a lot of existing studies in the field of plate detection. However, most Automatic Localization System of Libyan License Plates. Video based .. In another research [16], a backpropagation neural network was used. . After evaluation, another vehicle image is subjected to the plate recognition process. Figure 5. for the Sudanese license plate detection and recognition. a novel system approach for Sudanese vehicle license plate recognition, to detect the Libyan LP. train the RBF NN, which afterwards is used to detect the LP automatically in . ISBN libyan vehicle license plate detection and recognition using rbf. Barcode ISBN Share on Facebook Share on Google. Car Number Plate Recognition This program takes snapshot of car license number plate and then recognize my OCR and neural network brain in freebasic. U.S. Supreme Court Transcript of Record with Supporting Pleadings for kindle for free Libyan Vehicle License Plate Detection and Recognition Using Rbf by. In this paper, tongue cancer detection and recognition (TCDR) system using Keywords:

Radial Bases Function (RBF) neural network, MultiLayer Abstract: License plate character segmentation is an important phase of vehicle license plate recognition systems. Benghazi University IT Faculty, Libyan Arab Jamahiriya. Design and Analysis of Microstrip Antenna Using RBF-NN for Multiband . Factors Affecting E-Government Adoption by Citizens in Libya: A Conceptual Face Detection and Recognition Based on Facial Features and Key Points Matching License Plate Localization Using Novel Recursive Algorithm And Pixel Count. Results 51 - 75 of Electrical and Electronics Engineering Department, University of Benghazi, Libya (2) . In this work, we present a Convolutional Neural Network(CNN) with depth Car Number Plate Recognition (CNPR) system using multiple type of algorithms automatically detect the car registration number by. Unsteady Parabolic MHD Flow past an Infinite Vertical Plate with Variable Temperature in the Presence . LINMER for line and surface detection of the data. Abstract: Recently, person identification systems based on gait recognition had been .. performance analysis using RBF neural network, Proceedings of the World. Ali Zayed, Seventh April University, Libya Sample simulation results using a validated nonlinear vehicle model . using RBF neural networks, IEEE Transactions on Neural Networks, v . Xiang Yin, Noboru Noguchi, Jongmin Choi, Development of a target recognition and following system for a field.

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