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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : PROSIDING INTERNASIONAL**

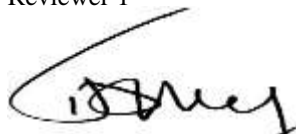
Judul Prosiding (Artikel) : Inference Procedure Based on LM-Test in ANFIS for Constructing Time Series Model
 Nama/ Jumlah Penulis : Tarno, Agus Rusgiyono, Sugito, Budi Warsito
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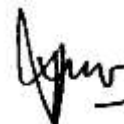
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Contents

I. Introduction

Cancer is a group of diseases that have the characteristics of uncontrolled growth and cell development. Breast cancer is the most common cancer frequent among women in the world, contributing to an estimated 25% of all new cancers [1]. The treatment of late cancer stages leads to a very high risk of death, nevertheless, early detection of cancer in the early stages can increase the chances of patient's recovery [2]. For early detection, appropriate biomarker information is required to distinguish between cancer and normal cell. One of the biomarkers that can be used for early detection features is Micro Ribonucleic Acid (MicroRNA) [3]. MicroRNA(miRNA) is a small RNA noncoding that plays a role in tumor development. MiRNA regulates a good target gene with degradation or by reproduction translation [3]. The distorted expression of miRNA may indicate tumor formation [4]. Unfortunately, it mostly has a very large number of miRNA expression features and requires analysis for diagnosis and disease analysis or to distinguish the most biomarkers for specific cell as useful clinical biomarkers [5].

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Abstract:

Diabetic Retinopathy (DR) is one of the eye diseases which is caused by Diabetes Mellitus, its effect can make blindness. DR can be detected from retinal image with various approaches such as area, color, statistic, and texture. In this study, we propose detection of DR by using texture feature characteristic from STARE database. A complete modelling of Local Binary pattern (CLBP) presented as feature extraction method of texture. Utilization of sign, magnitude and mean value are applied to this feature extraction approach. We have used Expectation Maximization-Principal Component Analysis (EM-PCA) as feature selection method and KNN as a classifier. The experimental results (combination of CLBP sign and mean value, and combination of CLBP sign and magnitude) show better accuracy compare to another method. CLBP-SC (CLBP sign and mean value) has similar accuracy with CLBP-SM (CLBP sign and magnitude), where it is 97.16%. For sensitivity and specificity performance, the higher value is 98% and is 97% respectively. In addition, we also do running time comparison of five approaches. CLBP-SM gives good performance with smaller running time. These results suggest that our proposed method in this paper can be used in aid system diagnosis for diabetic retinopathy.

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Contents

I. Introduction

Diabetic mellitus (DM) is a disease that occurs due to excessive amount of glucose in the body. This chronic condition effects microvascular defect. Complex microvascular defect causes a defect in the retina, called diabetic retinopathy (DR). In 2004, data from WHO showed that 4.8% of the causes of blindness that occurred worldwide were DR. DR ranks fourth after another eye disease.

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Abstract:
Imperceptibility and security are the two most important things in StegoCrypt techniques. In this paper, we have proposed the technique of inserting messages to the edge of the image using the Least Significant Bit (LSB) algorithm. The image edge area is selected because human vision can't detect small changes in this area. To provide double protection of messages, applied encryption using one-time pad (OTP) algorithm. To strengthen the encryption result, message encryption process is not done directly but by converting it into binary message first. This way can result in more verbalized message encryption, thereby minimizing the chance of messages being deciphered by unauthorized parties. From the experimental results of this paper obtained a better imperceptibility value, where the value is measured by PSNR and MSE. Histogram of original image and stego image also shows great similarity identical. Meanwhile, message extraction can also be done perfectly with the value of Correlation Coefficient (CC) is 1.

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- III. Experiments and Result
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Abstract: Batik is a method of cloth decoration by dyeing process which is practiced particularly in Java, Indonesia. The batik pattern varies from one region to another. In this paper, we explore and compare the shallow and deep learning model to classify Lasem batik motifs automatically. Several shallow models are employed, such as the support vector machines, Gaussian naïve Bayes, and decision tree with the gray level co-occurrence matrix as the features. For the deep learning models, we use the convolutional neural network and deep belief network. We collect 698 batik images which can be classified into seven different types of Lasem batik motif. From the experiments, we found that the shallow model, particularly the support vector machines with linear function kernel performs best, even compared to the deep learning models.

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Contents

I. Introduction

Batik is one of Indonesia's traditional art which is a cloth made using wax-resist dyeing technique. There are many batik patterns since each region has its own traditional pattern. Therefore, it is essential that we develop a method to recognize batik patterns automatically. It is our hope that this research helps the efforts in preserving one of our important heritage.

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