LEMBAR HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW KARYA ILMIAH: PROSIDING

Judul Karya Ilmiah Designing Internal-External Control Method for Delta Robot Prototype to Manipulate

Non-Linier Movement Object

Jumlah Penulis Status Pengusul 3 Orang Penulis ke-1

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Judul Prosiding

2016 3rd International Conference on Information

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Medium reservoir hydro electric power plant has been long serving as conventional renewable energy source in Indonesia, mostly in Jawa Island. Shortly after the independence of Republic of Indonesia, large hydro power plants began to be constructed for example Jatiluhur and Riam Kanan, followed by Sigura-gura, Cirata, Saguling, and several others more. Meanwhile, small-sized and microhydro-run-of-river type hydro power plant has been developed since the early of 1970s through the joint corporation of ITB and Eindhoven University, this corporation developed turbine for microhydro and also dummy load for load regulation. Some local industries, for instance PT. Hexa Pratama in Bandung, which have capacity to develop complete microhydro power plant system up to 300kW have been emerged after succesfully GTZ Programme back in the 1980s. Large hydro power plant is currently undergoing construction phase, it is expected that in 2019 Upper Cisokan pumped storage power plant with capacity of 1040 MW will be integrated with Jawa-Bali Interconnection System. Simple pico-hydro power plants are also constructed in several remote areas in Indonesia.

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One clock cycle is the ideal latency for a network-on-chip (NoC) router to pass the received flit in the current cycle to its requested destination output port when there is no contention with other flits. In order to achieve this goal, a newly arrived flit is required to go through all router's pipeline stages to the switch traversal stage. In this paper, we present a low latency synchronized NoC router micro-architecture that achieves single clock cycle latency for packets traveling to the same direction using a static straight VC/SW allocator (SSA). In comparison to existing single clock cycle latency routers which require more complex VC/SW allocator or crossbar switch architectures, our proposed SSA has simpler architecture and works in parallel with the previously proposed baseline VC/SW allocator. The simulation results using six different synthetic traffic patterns shows SSA reduces the communication latency of a 2-cycle latency baseline router by 24% in average.

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Summary form only given. Traditionally CCTV security and surveillance systems are meant for deterrent rather than for prevention where these systems will simply record scenes as viewed by video cameras regardless whether there is any activity or not. In the event of some criminal prosecution procedures, these recorded videos may be served as evidence in the court of law. The 9/11 incident has changed the way on how these video-based surveillance systems are being employed. More automated functions and "smart" algorithms have been incorporated into such systems so that these systems can detect moving object, identify to some degree what the object is and possibly tracking its movement. However, the problems of object identification, recognition, and tracking are far from being solved. The London bombing and the recently Boston bombing are proof that automatic system failed to identify the suspect. In fact, it took hundreds of man hours for the authority to finally identify the criminals. In this talk we will look at emerging smart vide-based surveillance systems. The talk will not focus on any particular model, or system or algorithms. Instead, the talk will concentrate on what are the opportunities and challenges faced by the existing systems. In particular, we will be exploring these from the perspective of image processing. Thus the talk will serve two purposes. Firstly, it will give a brief overview on what smart video-based

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highlighting the challenges. To be specific, these areas of interest that will be covered by the covered by this talk will be on Face Recognition, Activity Recognition, Plate Recognition, Object you agree to the placement, of these economics. In Jean Medicard Rush Briefing 18 these cookies.

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Electroencephalography (EEG) which is the electrical signal recorded by the sensors attached on the human scalp to detect brain activities has been the emerging trends in digital signal processing. As compared to processing other types of digital data such as speech or audio signals, EEG signal processing is more challenging. However, EEG signals have practically found a wide range of important applications. In this paper, we propose a design of a brain-computer interface (BCI) using EEG's P300 component to a control application. First, we use the Emotiv EPOC headset to capture the raw EEG signals. Then, we adopt a classification algorithm by invoking support vector machine along with the selected extracted features to classify the two-class EEG trials (with and without P300 component). The algorithm is developed to help people express their selection of one among four commands. The experimental results are provided evaluate the classification accuracy.

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Ho Chi Minh city University of Technology, VNU-HCM

Dinh Quoc Hung

Ho Chi Minh city University of Technology, VNU-HCM

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I. Introduction

Brain-computer interface (BCI) systems are designed for people with difficulties in communication or with severe motor disabilities to express the thoughts by using their bare EEG signals. On top of that, the P300 wave, which is an event-related-potential (ERP) of EEG or say in another way, a specific component of our brain signals, is used in many BCI systems thanks to its clear distinctively observable characteristics among the noisy background of EEG signals. The P300 is an endogenous component of EEG signals elicited by human's brains in the process of decision making. P300's clearly positive voltage peak usually occurs typically approximately at 300 milliseconds after stimulus onset Sign in to Continue Reading presented by the socalled oddball paradigm, in which the lowprobability target stimuli are mixed with high-probability non-target ones. Each stimulus is implemented on the computer screen by visual flashing (or intensification) its symbol image. Four images corresponding 4 controlled devices are shown in the screen, on which the subject would focus their eyesight at only one image as their intention, and it is implicitly known as his or her target stimuli, while the other 3 images are the non-target ones. The subject is presented with two categories of stimulus (target and non-target), and he or she is instructed to visually focus on the target stimuli to determine his or her intention.

Authors			
Ha Hoang Kha Ho Chi Minh city University of Technology, VNU-HCM			
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In this study, we have examined electric field records from 10 thunderstorm days containing 13 positive narrow bipolar pulses (PNBPs). It was found that PNBP occurrences have a strong relationship with thunderstorm activities. The mechanism of the NBPs was very different from intracloud (IC) and cloud-to-ground (CG) flashes. We also found that the AM values of rise time, full width at maximum time, zero crossing time, overshoot time, pulse duration and overshoot to peak amplitude ratio of the PNBPs were 1.64 μs , 1.32 μs , 9.38 $\mu \beta$, 15.06 μs and 0.31 μs , respectively. The pulse duration range was from 8.45 to 29.06 μs . Comparison with values from previous studies reported by other researchers showed that the mentioned parameters had no strong relationship with latitude or geographic location.

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Contents

I. Introduction

Narrow bipolar pulses (NBPs) are identified as one of the intracloud (IC) lightning discharge activities inside thunderclouds. However, the physical mechanism of NBPs remains a mystery. Many researchers have reported that there were two types of NBPs, namely positive narrow bipolar pulses (PNBP) and negative narrow bipolar pulses (NNBP). NBPs have strong radio frequency radiation at several MHz and a short duration with zero crossing (initial positive half cycle) and overshoot (negative half cycle) within several microseconds, followed by or not followed by any other signals [1]-[4]. NBPs may not be related to ground and cloud flash a Stipvitilestar Coontigunate easting the most active thundercloud areas [2]. PNBPs usually occur at lower latitudes than NNBPs. In addition, PNBP occurrences are rare compared to NNBP events [5]. This study is to clarify the relationship between thunderstorm activity and PNBP occurrence. We examined an electric field change data set with 13 PNBPs that were recorded during thunderstorm days in 2015. The characteristics of the PNBPs were statistically analyzed based on electric field change as presented in this paper. All data were also compared to previous researches at different locations and latitudes.

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Digital watermarking has been recognized as an effective technique to protect intellectual property by embedding secret information into the digital products. This paper presents a new watermarking technique for digital image applications by using the contourlet domain. The contourlet transform is a powerful tool to capture singularities along smooth object boundaries with different elongated shapes and directions that helps the watermarking technique to achieve high performance. Specifically, the host image is decomposed into subbands by using the contourlet transform. Then, the mid frequency subbands are chosen to embed watermark with suitable embedment factors. The peak signal-to-noise ratio (PSNR) and normalized correlation (NC) are used to evaluate the performance of the algorithm. Simulations on different images are carried out to evaluate the invisibility and robustness of the proposed scheme. The experimental results show that the proposed method outperforms the others in terms of invisibility and robustness for the lossy JPEG compression.

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Contents

I. Introduction

The rapid development of the Internet has resulted in new challenges in protecting copyrighted digital products. Watermarking is a potential technique to resolve this problem. In watermarking technique, by inserting hidden information into an digital product, the extracted hidden information can be used to protect the copyright ownership of the digital product. It is desired that the extra information is embedded should cause imperceptible degradation of digital host product. Then, the watermarking in the transform domain is of great importance. The wavelet transform has much success in many signal processing and communication applications such as it is used as the key transform for the new image-compression standard, JPEG-2000 [22]. However, wavelets provide an optimal representation for these signals in a certain sense for example: one-dimensional piecewise smooth signals [21] [4]. In addition to the 1-D bases, wavelets in 2-D are good at capturing the discontinuities at edge points, but will not capture the smoothness along the contours well [4]. Like igseinthe Covertition are addingation of signals is limited when the signals are processed by separable wavelets. Thus, we need a power tool to represent signals in higher dimensions. Here are some well-known systems that provide multi-scale and directional image representations, for example: 2-D Gabor wavelets [5], the cortex transform [6], the steerable pyramid [7], 2-D directional wavelets [8], brushlets [9], complex wavelets [10], and the contourlet transform [4]. However, the contourlet transform is flexible for multi-resolution, local, and directional image expansion using contour segments. The contourlet transform has an important feature that previous systems do not have. It allows a different number of directions at each scale and achieves nearly critical sampling. In addition, the contourlet transform can be implemented by iterated filter banks and, thus, it offers low computational complexity. Motivated by the advantages of the contourlet transform, we will focus on the image watermarking technique in the contourlet domain.

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sensing in cognitive radio network.

Publisher: IEEE

Abstract: The existing blind noise estimation called cyclic prefix based noise estimation without knowledge of a priori signal is simulated along with input of DVB-T and the multipath channel ITU-T pedestrian model A. The simulation is done by means to know NMSE and noise uncertainty over time observation with varied SNR. The NMSE shows a very good result and close to the result of the previous research. The corresponding noise uncertainty is simulated in order to observe the performance of detection of spectrum sensing. It has the result that such limitation of detection called SNR wall will not occur. Based on the research, the estimator is expected to be applied along with spectrum

Abstract: The existing blind noise estimation called cyclic prefix based noise estimation

without knowledge of a priori signal is simulated along with input of DVB-T and the

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Contents

I. Introduction

Cognitive radio appears to be one of the solutions of the limitations of existing spectrum. Cognitive radio evolved from a software defined radio (SDR) [1]. In order to become cognitive radio SDR developed with the split to manage and optimize the spectrum and network resources to generate an electromagnetic source used for the benefit of telecommunication users.

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