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

Judul Karya Ilmiah	:	Shooting Simulator System Design Based on Augmented Reality		
Jumlah Penulis	:	2 Orang (Kurniawan Teguh Martono, **Oky Dwi Nurhayati**)		
Status Pengusul	:	Penulis ke-2		
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Total = (100%)	**23,25**	**23,97**	**23,61**
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Semarang, 16 April 2020

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d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	7,50		6,75
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Semarang, 16 April 2020

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Semarang, 26 Februari 2020

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Shooting simulator system design based on augmented reality (Conference Paper)

Martono, K.T. ✉, Nurhayati, O.D. ✉

Computer Engineering Department, Diponegoro University, Semarang, Indonesia

Abstract

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Development of computer technology today has a major role in the development process of interaction in computer-based applications. Various innovations in creating the user experience of applications began are increasing. Augmented reality is a technology model the interaction between humans and computers by using a model of a merger between the real world with the virtual world. This development certainly can help people or community in various fields, especially in the field of shooting. Shooting is one of the many activities carried out by members of the TNI, POLRI and PERBAKIN. Activities in course are requires skill and a good psychological condition. To obtain good craftsmanship, each member takes a routine of training activities. Computer graphics technology is use in the process of shooting practice. This process utilizes Augmented Reality technology roles. With this technology in practice shooting environment can be created artificially or virtually. Methodology used in this research is system software of development, it is called waterfall model. The use of this method is to generate a reliable system so that the system can work according to the needs. Based on testing the functionality of the system has meet the initial needs, the system works in accordance with the scenario. The minimum distance of the camera to the marker to be recognized is 20 cm and the maximum distance is 300 cm. © 2016 IEEE.

SciVal Topic Prominence

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Augmented Reality | Computer graphics | marker | shooting

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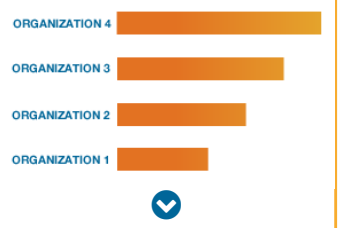

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Medium reservoir hydro electric power plant has been long serving as conventional renewable energy source in Indonesia, mostly in Jawa Island. Shortly after the independence of Republic of Indonesia, large hydro power plants began to be constructed 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 called Crossflow 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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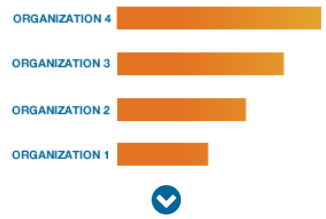

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I. Introduction

Network-on-Chip (NoC) [1] provides a flexible and extensible inter-core-communication infrastructure for many-core system-on-chips. However, due to multiple number of routers a packet has to traverse between a source and destination cores, as well as each individual router buffering, NoC-based systems can suffer from high inter-core communication latency. Reducing NoC communication latency is important as many-core based applications are highly sensitive to inter-core communication latency. However, designing a low latency NoC router can be a challenge.

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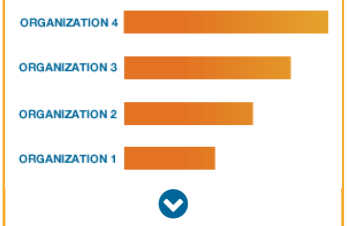

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Abandon/Stolen Recognition, and Crowd Detection. It is hoped that this talk will motivate and inspire many other young researches particularly from the ASEAN region to take more serious effort in this exciting field.

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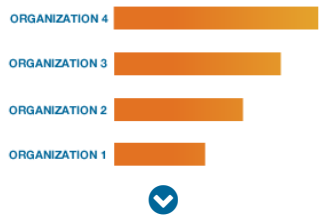

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Kurniawan Teguh Martono
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I. Introduction
Shooting is one of the many activities carried out by members of the TNI, POLRI and PERBAKIN. Activity ni course requires skill and a good psychological condition. To obtain good craftsmanship, each member takes a routine of training activities. Besides Shooting activities, requires a rigorous process from making the viewfinder image, regulate breathing and set the rhythm to pull the trigger so that the bullet from the rifle off towards the intended target liking.

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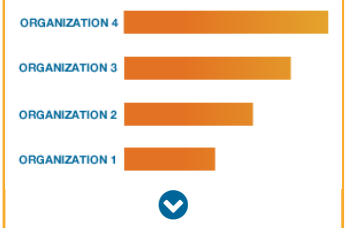

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Contents

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 presented by the socalled 'oddball paradigm', in which the low-probability 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.

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Electrical and temperature correlation to monitor fault condition of ZnO surge arrester

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Third harmonic resistive leakage current and thermal imaging was commonly used as tool for monitoring and assessing the zinc oxide surge arrester condition. However, the measuring of leakage current on-site is highly influenced by electromagnetic interference (EMI) and caused difficulty to get accurate measurement. Thermography technique can be used to measure temperature of ZnO arrester without interfered by the EMI. However, temperature images resulted from thermal camera were difficult to analyze due to lack of additional information. This paper proposes thermal image temperature correlation with third harmonic resistive leakage current to monitor condition of ZnO arrester. The condition of ZnO arrester classifies as normal, suspicious and faulty based on its third harmonic resistive leakage current. Statistical features of thermal image histogram together with the third harmonic resistive leakage current were used. The multilayer perceptron (MLP) neural network was used to classify the condition of ZnO arrester. The result shows that accuracy of classification is approximately 97 %, which is highly encouraging.

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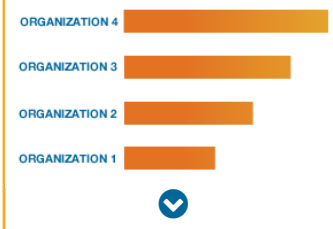

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Contents

I. Introduction

Surge arresters have been widely used to protect distribution and transmission transformers against lightning, switching overvoltage [1]. The non-linear voltage-current characteristic of surge arrester [2] lead they function as high impedances at normal operating voltages and become low impedances during overvoltage condition to release surge current from line to ground. The evolution of arrester technology has been characterized by the gradual improvement. Several different types of arresters are available such as gapped silicon carbide (SiC) and non-gapped zinc-oxide (ZnO). The performance of gapped arresters is determined by electrical and thermal properties of the ZnO block. Compared with SiC arresters, ZnO offer a protection closer to the ideal. However, the ZnO arresters are contain no gaps, the high leakage current can flow through the varistors at normal voltage level, which causes power losses and heat of ZnO elements. This condition may lead to the risk of thermal runaway [3] resulting in extensive damage of the ZnO arresters.

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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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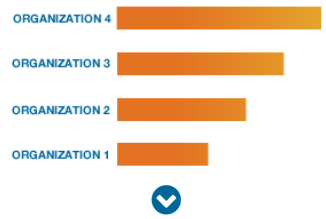

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Contents

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]. Likewise, the directional information 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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Energy efficiency beamformers for K-user MIMO interference channels with interference alignment

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Contents

I Introduction

Research on multi-user multiple-input multiple-output (MIMO) interference channels has been of great interest since interference channels include a majority of wireless communication models [1], [2]. In such systems, multiple terminals share the same frequency at the same time and, therefore, inter-user interference makes the channel capacity degradation. Optimal designs of the precoding and postcoding matrices for interference channels are mathematically challenging due to the nonconvexity associated with the optimization problems. Extensive studies have focused on designing the transmit beamformers to maximize the sum-rate of the systems [1], [3]. Alternatively, the mean square error (MSE) minimization has been adopted for the transceiver designs in MIMO broadcast channels [4] and in interference channels [5]. It was shown in [6] that the weighted MSE mimmization is equivalent to the sum-rate maximization when the weights are optimally chosen. Recently, interference alignment (IA) has been an emerging technique for interference mitigation in wireless networks [2], [7], [8]. In IA schemes, the transmitters cooperate each other to align their signals into a reduced dimension subspace at the unintended receivers and reserve the interference-free subspaces for the desired signals. Due to its effectiveness in dealing with interference, IA has been applied in various wireless networks [9]–[12].

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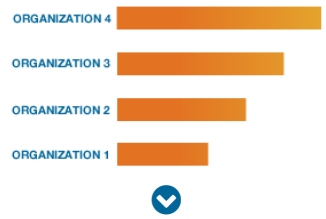

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Contents

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 ability 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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