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

Judul Karya Ilmiah (Artikel) : Wireless Sensor System for Photovoltaic Panel Efficiency Monitoring Using Wi-Fi Network

Jumlah Penulis : 2 Orang (**Suryono Suryono**, Ainie Khuriati)

Status Pengusul : Penulis pertama/~~penulis ke-1~~ /~~penulis korespondensi~~ **

Identitas Makalah : a. Judul Prosiding : IEEE Xplore, 2017 Second International Conference on Informatics and Computing (ICIC), 0-3 Nov. 2017

b. ISBN/ISSN : 978-1-5090-5671-2

c. Tahun Terbit, Tempat Pelaksanaan : 2017, Jayapura Indonesia

d. Penerbit/Organiser : IEEE

e. Alamat repository PT/web prosiding : <https://ieeexplore.ieee.org/document/8280640>

f. Terindeks di (jika ada) : SCOPUS

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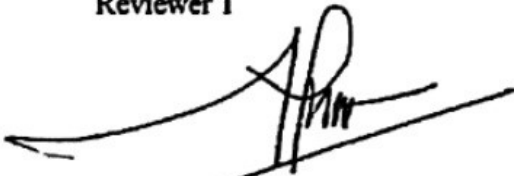
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	Reviewer I	Reviewer II	
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d. Kelengkapan unsur dan kualitas penerbit (30%)	7	7,5	7,25
Total = (100%)	23,1	23,5	23,3
Nilai untuk Pengusul : 60% x 23,3 = 13,98			

Semarang, 15 Januari 2020

Reviewer 1

Reviewer 2



Prof. Dr. Muhammad Nur, DEA
NIP. 195711261990011001
Bidang ilmu/Unit kerja : Fisika FSM UNDIP

Prof. Dr. Heri Sutanto, S.Si., M.Si.
NIP. 197502151998021001
Bidang ilmu/Unit kerja : Fisika FSM UNDIP

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d. Penerbit/Organiser : IEEE
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	Internasional ☒	Nasional ☐	
a. Kelengkapan unsur isi prosiding (10%)	2,5		2,2
b. Ruang lingkup dan kedalaman pembahasan (30%)	7,5		7
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	7,5		6,9
d. Kelengkapan unsur dan kualitas penerbit (30%)	7,5		7
Total = (100%)	25		23,1
Nilai Pengusul = (60% x 23,1) = 13,6			

Catatan penilaian Artikel oleh Reviewer :

Penulisan artikel sudah cukup baik, latar belakang belum fokus pada sistem atau metoda pengamatan Efisiensi PV panel. Latar belakang masih terlalu dasar. Paper ini telah menunjukkan kebaruan dibandingkan dengan referensi. Metoda sudah standard dan dapat direplikasi oleh peneliti lain. Sedikit terkesan dalam metoda ini merupakan test tool. Sebaiknya lebih memperkaya metoda atau dapat membandingkan dengan metoda yang sudah ada. Pengambilan sampel sudah sangat baik. Pengolahan data juga sudah baik Ruang lingkup dan kedalaman pembahasan masih sangat minim. Diskusi antar hasil belum dilakukan. Perbandingan dengan hasil dari peneliti lain belum dilakukan. Terkesan paper ini merupakan prinsip dasar untuk test tool pada monitoring. Belum dilakukan pengamatan lebih tentang keunggulan metode dari hasil-hasil yang diperoleh tentu PV dalam berbagai kondisi cuaca. Penerbitan sudah sangat baik. Makalah ini dipublikasi dalam prosiding Internasional IEEE Explore, terindeks pada SCOPUS, dengan nilai maximum 25.

Semarang, 31 Desember 2019

Reviewer I

Prof. Dr. Muhammad Nur, DEA
NIP. 195711261990011001

Bidang ilmu/Unit kerja : Fisika FSM UNDIP

* dinilai oleh dua Reviewer secara terpisah
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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
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e. Alamat repository PT/web prosiding : <https://ieeexplore.ieee.org/document/8280640>

f. Terindeks di (jika ada) : SCOPUS

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b. Ruang lingkup dan kedalaman pembahasan (30%)	7,5		7
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	7,5		6,5
d. Kelengkapan unsur dan kualitas penerbit (30%)	7,5		7,5
Total = (100%)	25		23,5
Nilai Pengusul = (60% x 23,5) = 14,1			

Catatan penilaian artikel oleh Reviewer :

a. Artikel prosiding telah ditulis sesuai dengan templete IEEE sdan lengkap.

b. Ruang lingkup prosiding pada bidang fisika instrumentasi dan pembahasan data pada artikel telah dilakukan dengan baik.

c. Metode penelitian jelas, kecukupan data dan informasi baik. Artikel telah didukung dengan refferensi yang cukup.

d. Kualitas penerbitan baik, IEEE explore termasuk prosiding bereputasi dan penerbitannya konsisten.

Semarang, 27 Desember 2019

Reviewer 2



Prof. Dr. Heri Sutanto, S.Si., M.Si.
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Bidang ilmu/Unit kerja : Fisika FSM UNDIP

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Proceedings of the 2nd International Conference on Informatics and Computing, ICIC 2017
Volume 2018-January, 2 February 2018, Pages 1-5
2nd International Conference on Informatics and Computing, ICIC 2017; Aston Hotel and Convention Center - JayapuraJayapura, Papua; Indonesia; 1 November 2017 through 3 November 2017; Category numberCFP17G52-USB; Code 134543

Wireless sensor system for photovoltaic panel efficiency monitoring using wi-fi network (Conference Paper)

Suryono, S.  Khuriati, A. 

Department of Physics, Diponegoro University, Semarang, 50273, Indonesia

Abstract

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Photovoltaic (PV) panel is an instrument that serves as a source of electric energy with many advantages. There is a need for a monitoring system for external disturbances on PV panels as to ensure its optimum function. This research developed a wireless sensor system to monitor the condition of PV panels. This system consists of a light illumination sensor as the input, a current sensor, and a voltage divider to measure electric power as the output parameter mounted on the Remote Terminal Unit (RTU) in the field. Data from these sensors are acquired by a micro controller via an ADC and an Inter-Integrated Circuit (I2C) protocol specified for the sensors used. These data are then sent to the network via an Ethernet board using the TCP/IP protocol. Then, a radio is used to communicate these data to a Control Terminal Unit (CTU) computer. These data are saved in a database for further computations on PV panel efficiency. Results of output graphic analyses will indicate whether the PV panels are normal and or not normal. Hence, the system serves to diagnose disturbances on the PV panel by comparing the input variable (light illumination) against the resulting PV panel efficiency. © 2017 IEEE.

SciVal Topic Prominence ⓘ

Topic: Monitoring | Photovoltaic cells | Solar energy

Prominence percentile: 83.564 ⓘ

Author keywords

diagnosis electric power monitoring photovoltaic wireless sensor

Indexed keywords

Engineering controlled terms: Diagnosis Photovoltaic cells Terminals (electric) Voltage dividers Wi-Fi Wireless local area networks (WLAN) Wireless sensor networks

Engineering uncontrolled terms: Electric power External disturbances Inter integrated circuit protocol (I2C) Photovoltaic Photovoltaic panels Remote terminal units Wireless sensor Wireless sensor system

Engineering main heading: Monitoring

ISBN: 978-153862984-0
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Original language: English

DOI: 10.1109/IAC.2017.8280640
Document Type: Conference Paper
Sponsors: APTIKOM
Publisher: Institute of Electrical and Electronics Engineers Inc.

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doi: 10.4304/jnw.4.10.1042-1049

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☐ **Wireless sensor system for photovoltaic panel efficiency monitoring using wi-fi network** 🔒

Suryono Suryono ; Ainie Khuriati

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Feedback

Abstract	Abstract: Consumer-to-consumer (C2C) e-marketplace is one of the most popular forms of e-commerce today, where trust plays important role in it. This study aims to investigate the trust transfer process between sellers and e-payment systems, as well as analyze their impact on e-payment systems acceptance in C2C e-marketplace. The data was collected by distributing online and offline questionnaires to C2C e-commerce users in Indonesia. We obtained data from 249 respondents and then subsequently processed the data using structural equation modeling (SEM) with the help of AMOS 22.0 software. The result of this study shows that trust to the seller is influenced by disposition to trust and positive reputation. In addition, this study also concludes that the trust in the e-payment system is affected by the quality of e-payment and the recommendations of others. Furthermore, this study proved that the transfer of trust from the seller to the e-payment system can affect the intention to use the e-payment systems.	
Document Sections		
I. Introduction		
II. Theoretical Background		
III. Hypotheses Development		
IV. Research Methodology		
V. Results and Discussion		
Authors	Published in: 2017 Second International Conference on Informatics and Computing (ICIC)	
Figures	Date of Conference: 1-3 Nov. 2017	INSPEC Accession Number: 17544557
References	Date Added to IEEE Xplore: 05 February 2018	DOI: 10.1109/IAC.2017.8280628
Keywords	► ISBN Information:	Publisher: IEEE
Metrics		Conference Location: Jayapura, Indonesia

I. Introduction
The rapid growth of Internet usage in Indonesia drives the increase of online transactions, particularly on the consumer-to-consumer (C2C) e-marketplace sites. Examples of C2C e-marketplace sites in Indonesia are Tokopedia, Bukalapak, and others. C2C e-marketplace is a unique business concept because all users can become sellers or buyers at the same time [2].

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N. F. Ayuning Budi Faculty of Computer Science, University of Indonesia, Jakarta, Indonesia	
A. Nizar Hidayanto Faculty of Computer Science, University of Indonesia, Jakarta, Indonesia	
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Abstract
Document Sections
I. Introduction
II. Review of Methods
III. Validation Studies
IV. Conclusion
Authors
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Abstract:

Our research is mainly based image processing techniques to ensure a smart monitoring of a solar station because one of the most critical issues facing solar plants is how to ensure an efficient monitoring of installations. In our previous work the problem encountered is how to select the best images from video frames to get a good panoramic image. So in this paper two methods for selecting the best images were reviewed: Key point matching and Histogram Method, then we present a study validation. All tests are applied on video sequence captured from a small solar plant installation.

Published in: 2017 Second International Conference on Informatics and Computing (ICIC)

Date of Conference: 1-3 Nov. 2017

INSPEC Accession Number: 17561186

Date Added to IEEE Xplore: 05 February 2018

DOI: 10.1109/IAC.2017.8280653

► ISBN Information:

Publisher: IEEE

Conference Location: Jayapura, Indonesia

I. Introduction

To obtain the best production of the solar energy, we should monitor solar panels continuously to get the best performance. In [1] we proposed a process used watermarking techniques to ensure a remote monitoring on real-time mode with an embedding system and in [2] we proposed a technique to prepare a large panoramic image view of the desired area from the captured video frames. In order to perform this task, the supervisor task, the obtained experimental result is not satisfactory. But, the problem encountered is how to compare image sequences in order to select the best images to get a good result that will ensure a good solar panel monitoring. So, the aim of the paper is comparing two methods: we talk about key point matching and histogram method in order

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