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

Judul Jurnal Ilmiah (Artikel) : A fuzzy rule-based fog–cloud computing for solar panel disturbance investigation
Nama/ Jumlah Penulis : 3 Orang
Status Pengusul : ~~Penulis pertama~~/Penulis Kedua/ ~~Penulis Korespondensi~~ **
Identitas Jurnal Ilmiah : a. Nama Jurnal : **Cogent Engineering**
b. Nomor ISSN : 2331-1916
c. Vol, No., Bln Thn : vol. 6, no. 1, pp. 33-36, 30 May 2019
d. Penerbit : Cogent OA
e. DOI artikel (jika ada) : <https://doi.org/10.1080/23311916.2019.1624287>
f. Alamat web jurnal : <https://www.tandfonline.com/doi/full/10.1080/23311916.2019.1624287>
Alamat Artikel : <https://www.tandfonline.com/doi/epdf/10.1080/23311916.2019.1624287?needAccess=true&role=button>
g. Terindex : Scopus

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☐ Jurnal Ilmiah Nasional Tidak Terakreditasi

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b. Ruang lingkup dan kedalaman pembahasan (30%)	11,9	11,9	11,9
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d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	12	12	12
Total = (100%)	39,8	39,9	39,85
Nilai pengusul = $(40\% \times 39,85)/2 = 7,97$			

Semarang, 10 Mei 2023

Reviewer 1

Prof. Dr. Kusworo Adi, S.Si., M.T.

NIP. 197203171998021001

Unit Kerja : Fakultas Sains dan Matematika

Bidang Ilmu: Fisika

Reviewer 2

Prof. Dr. Heri Sutanto, S.Si., M.Si.

NIP. 197502151998021001

Unit Kerja : Fakultas Sains dan Matematika

Bidang Ilmu: Fisika



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b. Ruang lingkup dan kedalaman pembahasan (30%)	12			11,9
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	12			11,9
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	12			12
Total = (100%)	40			39,8
Nilai Pengusul = (40% x 39,8)/2=7,96				

Catatan Penilaian artikel oleh Reviewer :

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2. Ruang lingkup dan kedalaman pembahasan:

Pembahasan dengan menggunakan metoda yang diusulkan dalam artikel cukup komprehensif. Diskusi telah dilakukan dengan para peneliti lain melalui referensi yang disitasi. Sebuah artikel yang menarik.

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Semarang, 5 Mei 2023

Reviewer 1

Prof. Dr. Kusworo Adi, S.Si., M.T.

NIP. 197203171998021001

Unit Kerja : Fakultas Sains dan Matematika
 Bidang Ilmu: Fisika



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b. Ruang lingkup dan kedalaman pembahasan (30%)	12			11,9
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d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	12			12
Total = (100%)	40			39,9
Nilai Pengusul = (40% x 39,9)/2 = 7,98				

Catatan Penilaian artikel oleh Reviewer :

Catatan Penilaian Paper oleh Reviewer :

- Kesesuaian dan kelengkapan unsur isi jurnal :
Artikel telah ditulis lengkap sesuai dengan format Cogent Engineering. Topik artikel masuk dalam lingkup.
- Ruang lingkup dan kedalaman pembahasan:
Lingkup artikel dibidang aplikasi fisika yaitu aturan fuzzy untuk menyelidiki gangguan pada panel surya. Ada 6 referensi yang digunakan untuk komponen hasil dan pembahasan
- Kecukupan dan kemutakhiran data/informasi dan metodologi:
Data-data informasi didukung 33 pustaka 5 tahun terakhir kategori mutakhir
- Kelengkapan unsur dan kualitas terbitan/ prosiding:
Kualitas penerbitan cukup baik. Jurnal Cogent Engineering termasuk jurnal berreputasi terindeks Scopus Q2 SJR 0,27 dan topik sesuai dengan bidang ilmu penuls

Semarang, 5 Mei 2023

Reviewer 2

Prof. Dr. Heri Sutanto, S.Si., M.Si.

NIP. 197502151998021001

Unit Kerja : Fakultas Sains dan Matematika

Bidang Ilmu: Fisika



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Cogent Engineering [Open Access](#)
Volume 6, Issue 1, 1 January 2019, Article number 1624287

A fuzzy rule-based fog–cloud computing for solar panel disturbance investigation (Article) [\(Open Access\)](#)

Suryono, S.^a ✉️, Khuriati, A.^b, Mantoro, T.^b 👤

^aDepartment of Physics, Faculty of Science and Mathematics, Diponegoro University, Semarang, 50273, Indonesia
^bFaculty of Engineering and Technology, Sampoerna University, Jakarta, 12930, Indonesia

Abstract

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The electrical energy produced by solar panel depends on the light intensity falling on the panel, but this process is prone to disturbances from external factors. Unfortunately, models of online solar panel disturbance diagnosis have not been widely developed. This research proposes a model of fog computing using fuzzy rule-based algorithm is capable of automatic monitoring and diagnosing factors affecting solar panel efficiency. Data from physical parameter of sensors are acquired by the System on Chip (SoC) Wi-Fi microcontroller and sent to the fog server via a Wi-Fi gateway. The fuzzy rule-based algorithm consists of investigation rules showing the relationships among efficiency, light intensity, output electrical power, temperature, and humidity. Output of fog network computing is sent to the cloud server and serves as information for users of this investigation system. The fog network system is able to improve cloud performance, in terms of the transmission time has increased performance from 246.1 to 27.9 ms. In general, this system is able to improve relative efficiency of solar panel by 2.1%, compared to solar panels not equipped with this instrument. In order to obtain accurate investigation results, detailed conditions of all possible events in the field are required. © 2019, © 2019 The Author(s). This open access article is distributed under a Creative Commons Attribution (CC-BY) 4.0 license.

SciVal Topic Prominence ⓘ

Topic: Photovoltaic cells | Fault detection | Photovoltaic power

Prominence percentile: 97.107 ⓘ

Author keywords

disturbance efficiency fuzzy rule-based solar panel wireless sensor system

Funding details

Funding sponsor	Funding number	Acronym
Universitas Diponegoro		UNDIP

Funding text

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Real-time decision support system for carbon monoxide threat warning using online expert system

Suryono, S. , Surarso, B. , Saputra, R. (2019) *Journal of Applied Engineering Science*

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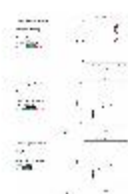
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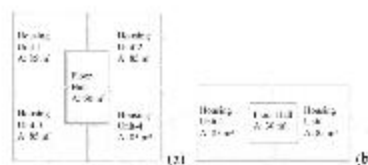
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