UNIVERSITAS MERCU BUANA

SINERGI
Universitas Mercu Buana
http://publikasi.mercubuana.ac.id/index.php/sinergi

COVER LETTER

[*Marhani Rosyadah*]
[*Politeknik Negeri Sriwijaya*]
[*marhanirosyadah@gmail.com*]
[*+6282278598525*]

[*7 Juni 2021*]

Dear,
I wish to submit an original research article entitled "[***Smart Optimization of PV Panel Output Using Fuzzy Logic Controller Based Solar Tracker***]" for consideration by SINERGI.

I/We confirm that this work is original and has not been published elsewhere, nor is it currently under consideration for publication elsewhere.

In this paper, I report on / show that:

Topic	:	Smart Optimization of PV Panel Output Using Fuzzy Logic Controller Based Solar Tracker
Brief Background	:	Commonly, most solar panels are installed in a fixed position while the earth constantly rotates around the sun,meaning that the sun's position will always move every minute along with the earth's rotation. This motion causes the position of the solar panels to be not perpendicular to the sun and results in not maximizing sunlight received by the solar panels. If the sunlight received by the solar panels is not optimal, the power output produced by the PV panel is not optimal. Therefore, it is necessary to adjust the PV panels' position to get the maximum light intensity and increase the power output and system efficiency.
Research Problem	:	Solar energy cultivation is experiencing various obstacles resulted in not producing maximum output, which is indicated by low output efficiency.
Overview of Method	:	Solar tracking system is one of the best methods to ensure the maximum sunlight received by the PV panels.
Significant finding	:	This paper shows the effectiveness of a solar tracking system controlled by FLC compared to a fixed system.

We have no conflicts of interest to disclose.

Thank you for your consideration of this manuscript.

Sincerely,
[*Marhani Rosyadah*]

AUTHORSHIP STATEMENT

I wish to submit an original research article entitled "[***Smart Optimization of PV Panel Output Using Fuzzy Logic Controller Based Solar Tracker***]" for consideration by SINERGI.

All persons who meet authorship criteria are listed as authors, and all authors certify that they have participated sufficiently in work to take public responsibility for the content, including participation in the concept, design, analysis, writing, or revision of the manuscript.

Author 1		
Name	:	Marhani Rosyadah
Affiliation	:	Applied Master of Renewable Energy Engineering, Politeknik Negeri Sriwijaya, Indonesia
Email Address	:	marhanirosyadah@gmail.com
Author 2		
Name	:	RD Kusumanto
Affiliation	:	Electrical Engineering Department, Politeknik Negeri Sriwijaya, Indonesia
Email Address	:	rdkusumanto@gmail.com
Author 3		
Name	:	Tresna Dewi
Affiliation	:	Electrical Engineering Department, Politeknik Negeri Sriwijaya, Indonesia
Email Address	:	tresna_dewi@polsri.ac.id