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#20 (1570719018): The Transmission Fault Detection Method Using Capacitive Properties on the Transmission Line: Case Study of South Sulawesi Power System

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Property	Change Add	Value
Conference and *track*		**2021 IEEE International Conference on Industry 4.0, Artificial Intelligence, and Communications Technology (IAICT)** - *Industry 4.0*

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Title	Only the chairs (iaict2021-chairs@edas.info) can edit	*The Transmission Fault Detection Method Using Capacitive Properties on the Transmission Line: Case Study of South Sulawesi Power System*
Abstract	Only the chairs (iaict2021-chairs@edas.info) can edit	Protection of the transmission line has a very important role in the electric power system. The line protection relay is a component system that used to detect a fault condition on the transmission line. Overhead Lines transmission line disturbances often occur due to the touch of a tree. To find out the type of disturbance that occurs, permanent or non-permanent, and to normalize the disturbance can only be done by inspection road on the transmission line from the substation to the location of the disturbance. To ascertain the type of disturbance condition it is permanent or not permanent on the transmission line is very difficult. For this reason, a fault detector using capacitive voltage is made using the PMT Auxiliary Contact, CB Status. The results of the design show that if there is interference, the capacitive voltage is zero so that the LED lamp will off, while in a healthy phase the LED lamp will on.
Keywords	Only the chairs (iaict2021-chairs@edas.info) can edit	Fault Detection; Transmission Line; Distance Relay; Capacitive Properties
Topics	Only the chairs (iaict2021-chairs@edas.info) can edit	Smart Devices and Products; Predictive Analytics
Presenter(s)		Syarifuddin Nojeng (bio)
Registration		Syarifuddin Nojeng has registered and paid for Authors:NonMember
Session		PS4: *Paper Presentation 4* from Wed, July 28, 2021 08:00 until 10:00 (2nd paper) in Virtual Room (20 min.)
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Status		Accepted
Copyright form		IEEE; IEEE: Jun 30, 2021 01:47 Asia/Jakarta
Review manuscript		However, authors cannot upload: paper status

Document (show)	Pages	File size	Changed	Similarity rating
	7	766,759	May 1, 2021 11:48 Asia/Jakarta	20

Final manuscript	Could upload until Jul 1, 2021 18:59 Asia/Jakarta.	However, authors cannot upload: final deadline

Document (show)	Pages	File size	Changed
	5	261,950	Jul 21, 2021 12:38 Asia/Jakarta

pdf	topmargins_a4	The top margin is 1.88 cm on page 3, which is below the required margin of 1.9 cm.	-
pdf	minpages	The final manuscript must have at least 4 filled pages, not just 3. (FAQ 1092)	-

Presentation	Could upload until Jul 27, 2021 18:59 Asia/Jakarta.	However, authors cannot upload: presentation deadline

Document (show)	Pages	File size	Changed
	6	262,247	Jul 19, 2021 17:16 Asia/Jakarta
		720,452	Jun 30, 2021 09:58 Asia/Jakarta

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Document (show)	Pages	File size	Changed
	5 (115...119)	312,237	Aug 4, 2021 11:35 Asia/Jakarta

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	5 (115...119)	312,237	Aug 4, 2021 11:35 Asia/Jakarta

Personal notes

Dear, Please as a presenter is Dr. Ir. H. Arif Jaya (Co-Author) also for the certificate in his name. tq.

You are the creator and an author for this paper. You have authored an accepted paper.

Reviews

3 Reviews

Review 1

Relevance and timeliness	Technical content and scientific rigour	Novelty and originality	Quality of presentation
Fair (2)	Valid work but limited contribution. (3)	Some interesting ideas and results on a subject well investigated. (3)	Readable, but revision is needed in some parts. (3)

Detailed comments (Please justify your recommendation and suggest improvements in technical content or presentation.)

The author has well illustrated the concept of the fault Detection Method by using Capacitive Properties.

The similarity score is 20 which is a little high as a good article.

For the analysis part, the author may want to look at the analysis method discussed below for a better approach in the future and it could be another spot for authors to conduct into the current research topic.
1) H. Pan, E. Hou, and N. Ansari, "M-NOTE: A multi-part ballot based-voting system with clash attack protection", in 2015 IEEE International Conference on Communications (ICC), London, 2015, pp. 7433–7437.

2) H. Pan, E. Hou, and N. Ansari, "Re-note: an e-voting scheme based on ring signature and clash attack protection", In 2013 IEEE Global CommunicationsConference (Globecom), IEEE, 2013; 867–871.

Review 2

Relevance and timeliness	Technical content and scientific rigour	Novelty and originality	Quality of presentation
Average (3)	Valid work but limited contribution. (3)	Minor variations on a well investigated subject. (2)	Readable, but revision is needed in some parts. (3)

Detailed comments (Please justify your recommendation and suggest improvements in technical content or presentation.)

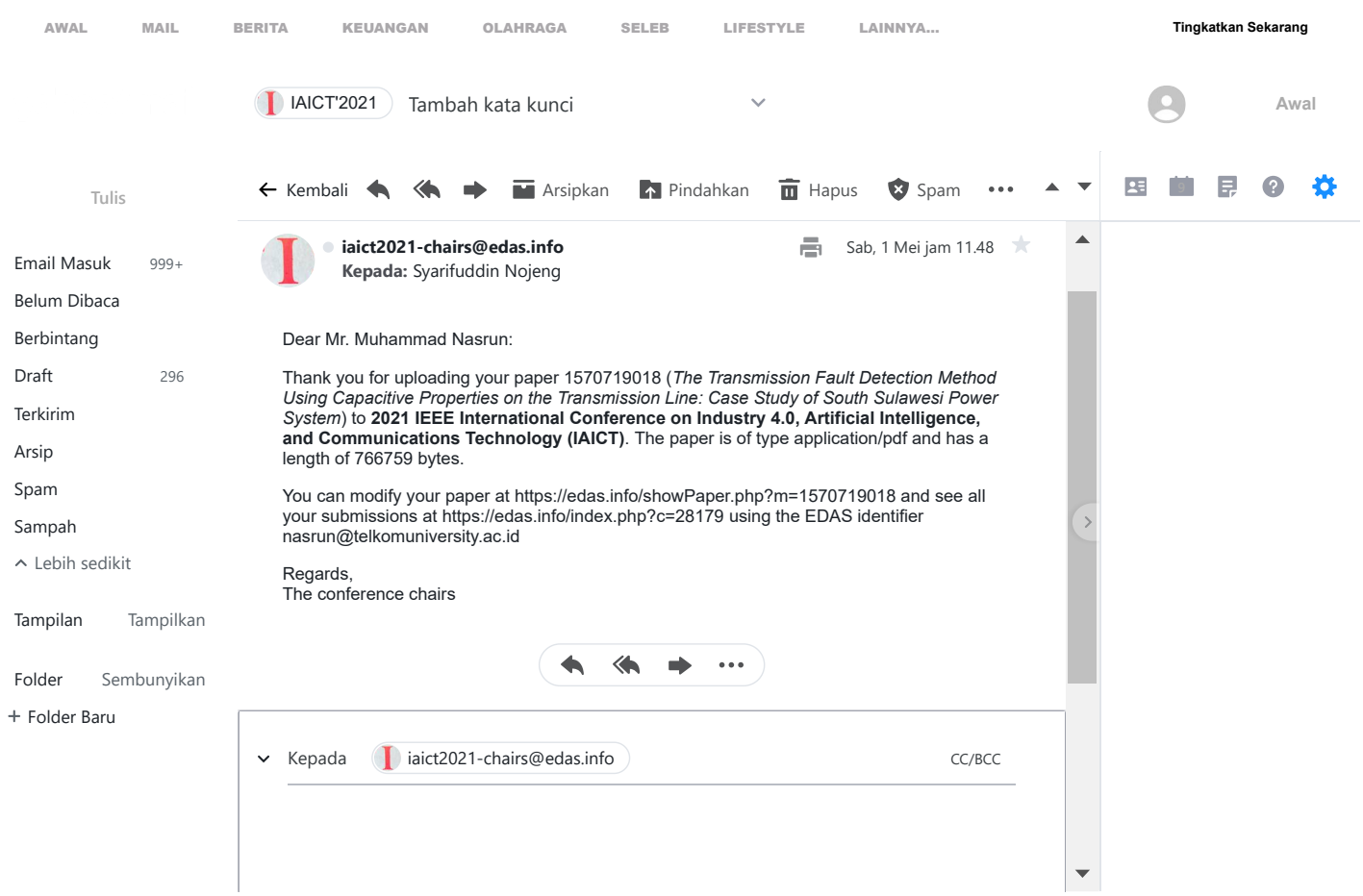
Abstract (what you are going to do) & conclusions (what you have done) are not sharp, rewrite it.
Recent references are to be added as well as it has to be cited in the paper. At least 15 Recent references to be included in the reference Section. Don't put the website address in the reference Section.
The existing work is to be compared with some standard techniques/Parameters.
It would be better if some more comprehensive evaluations are included.
The future work in this field to be mention.
No empirical relations used to validate techniques mention.
Author should explain Proposed methodology architecture is a broad manner.

Review 3

Relevance and timeliness	Technical content and scientific rigour	Novelty and originality	Quality of presentation
Good (4)	Valid work but limited contribution. (3)	Some interesting ideas and results on a subject well investigated. (3)	Readable, but revision is needed in some parts. (3)

Detailed comments (Please justify your recommendation and suggest improvements in technical content or presentation.)

In this paper, the authors propose a fault detector for transmission lines in an electric power system. The fault detector uses a capacitive voltage. The authors case study show that the capacitive voltage is zero if there is interference in the line. Thus, the interference leads to LED lamp go off.
The case study is interesting but does not make any innovative contributions. There are no typos but the writing needs to be improved a lot as English sentences are not well constructed.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Kepada: Syarifuddin Nojeng
Sab, 1 Mei jam 11.48
Dear Mr. Muhammad Nasrun:
Thank you for uploading your paper 1570719018 (The Transmission Fault Detection Method Using Capacitive Properties on the Transmission Line: Case Study of South Sulawesi Power System) to 2021 IEEE International Conference on Industry 4.0, Artificial Intelligence, and Communications Technology (IAICT). The paper is of type application/pdf and has a length of 766759 bytes.
You can modify your paper at https://edas.info/showPaper.php?m=1570719018 and see all your submissions at https://edas.info/index.php?c=28179 using the EDAS identifier nasrun@telkomuniversity.ac.id
Regards,
The conference chairs
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CERTIFICATE

This is to certify that

Arif Jaya, Syarifuddin Nojeng, Hariani M. Pakka, and Agung Pramono

actively participated as presenter of paper entitled

The Transmission Fault Detection Method Using Capacitive Properties on the Transmission Line: Case Study of South Sulawesi Power System

in The 2021 IEEE International Conference on Industry 4.0, Artificial Intelligence, and Communications Technology, that held as a virtual event on July 27-28, 2021, Indonesia

Muhammad Nasrun
Chair of IAICT 2021

Telkom University

IEEE ComSoc
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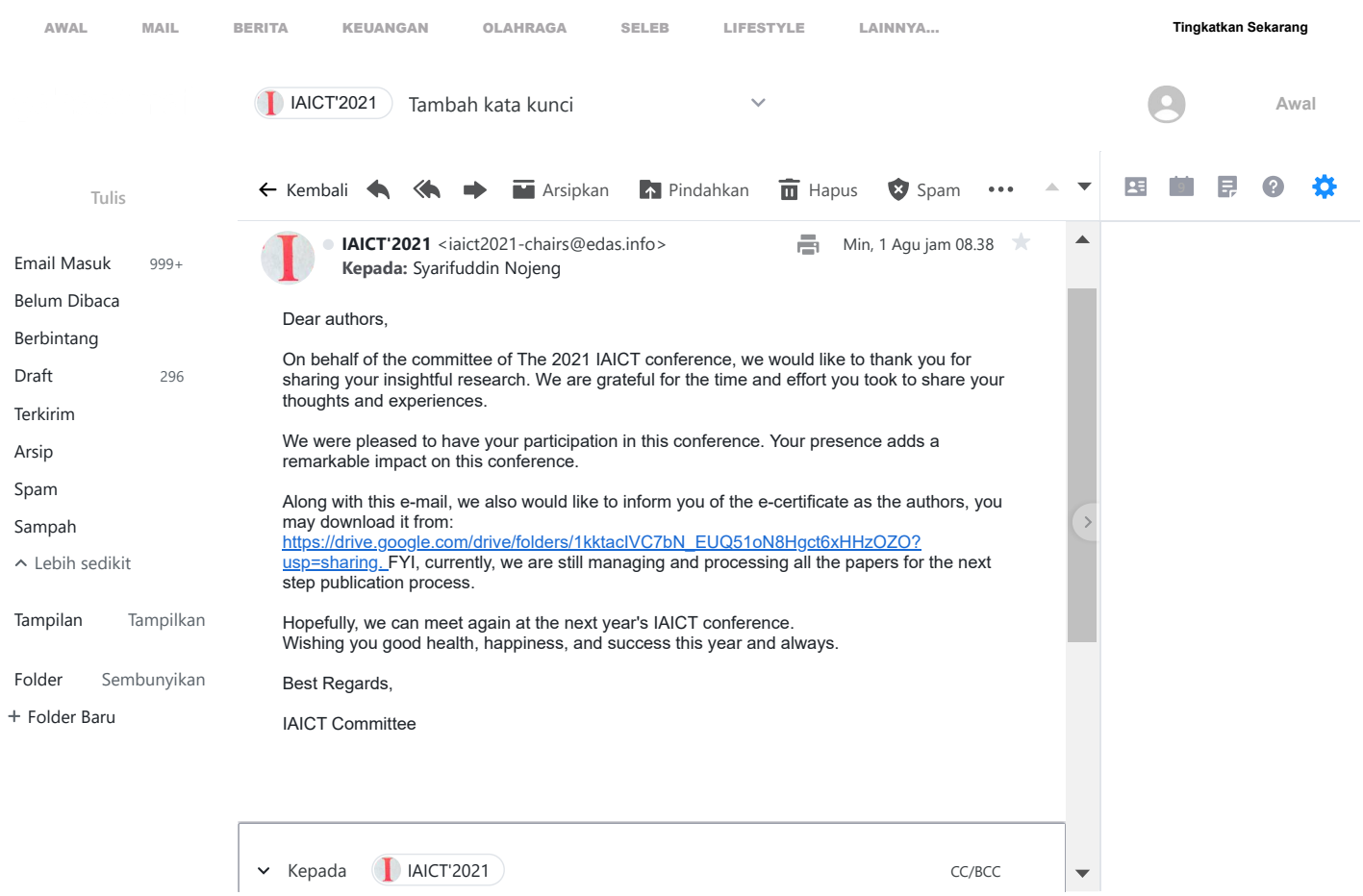
Indonesia Chapter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IAICT'2021 <iaict2021-chairs@edas.info>
Kepada: Syarifuddin Nojeng
Min, 1 Agu jam 08.38
Dear authors,
On behalf of the committee of The 2021 IAICT conference, we would like to thank you for sharing your insightful research. We are grateful for the time and effort you took to share your thoughts and experiences.
We were pleased to have your participation in this conference. Your presence adds a remarkable impact on this conference.
Along with this e-mail, we also would like to inform you of the e-certificate as the authors, you may download it from:
https://drive.google.com/drive/folders/1kktaclVC7bN_EUQ51oN8Hgct6xHHzOZO?usp=sharing. FYI, currently, we are still managing and processing all the papers for the next step publication process.
Hopefully, we can meet again at the next year's IAICT conference.
Wishing you good health, happiness, and success this year and always.
Best Regards,
IAICT Committee
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