



Gigih Forda Nama <gigih@eng.unila.ac.id>

[ICITACEE 2015] Information about paper #1570211437 (Smart Monitoring of Electrical Quantities Based on Single Board Computer BCM2835) has been changed

4 messages

ICITACEE 2015 <icitacee2015-chairs@edas.info>

Thu, Aug 6, 2015 at 12:58 PM

To: Gigih Forda Nama <gigih@eng.unila.ac.id>, Dekpride Despa <despa@eng.unila.ac.id>

Dear Mr. Gigih Nama:

Information about your paper #1570211437 ('Smart Monitoring of Electrical Quantities Based on Single Board Computer BCM2835') for ICITACEE 2015 was changed by Gigih Forda Nama ():

Dekpride Despa added as author

No further action is required from you.

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Regards, The conference chairs

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Thu, Aug 6, 2015 at 12:58 PM

To: Gigih Forda Nama <gigih@eng.unila.ac.id>, Dekpride Despa <despa@eng.unila.ac.id>, Muhamad Komarudin <komar@eng.unila.ac.id>

Dear Mr. Gigih Nama:

Information about your paper #1570211437 ('Smart Monitoring of Electrical Quantities Based on Single Board Computer BCM2835') for ICITACEE 2015 was changed by Gigih Forda Nama ():

Muhamad Komarudin added as author

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Thu, Aug 6, 2015 at 1:00 PM

To: Gigih Forda Nama <gigih@eng.unila.ac.id>, Dekpride Despa <despa@eng.unila.ac.id>, Muhamad Komarudin <komar@eng.unila.ac.id>, Mardiana Rendra <mardiana@eng.unila.ac.id>

Dear Mr. Gigih Nama:

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Mardiana Rendra added as author

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Ady Kurniawan added as author

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

















































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#34 (1570211437): Smart Monitoring of Electrical Quantities Based on Single Board Computer BCM2835

1570211437

Property	Change Add	Value																																																												
Conference and track		2015 2nd International Conference on Information Technology, Computer, and Electrical Engineering (ICITACEE) - 2015 THE 2nd INTERNATIONAL CONFERENCE ON INFORMATION TECHNOLOGY, COMPUTER, AND ELECTRICAL ENGINEERING																																																												
Authors		<table><tr><th>Drag to change order</th><th>Name</th><th>ID</th><th>Edit</th><th>Flag</th><th>Affiliation (edit for paper)</th><th>Email</th><th>Country</th><th>Email</th><th>Delete</th></tr><tr><td>⋮</td><td>Dikpride Despa</td><td>1338465</td><td>not creator</td><td></td><td>University of Lampung, Indonesia</td><td>despa@eng.unila.ac.id</td><td>Indonesia</td><td></td><td></td></tr><tr><td>⋮</td><td>Ady Kurniawan</td><td>1338469</td><td>not creator</td><td></td><td>University of Lampung, Indonesia</td><td>adykurniawan18@gmail.com</td><td>Indonesia</td><td></td><td></td></tr><tr><td>⋮</td><td>Muhamad Komarudin</td><td>1128659</td><td>not creator</td><td></td><td>University of Lampung, Indonesia</td><td>komar@eng.unila.ac.id</td><td>Indonesia</td><td></td><td></td></tr><tr><td>⋮</td><td>Mardiana Mardiana</td><td>1338467</td><td>not creator</td><td></td><td>University of Lampung, Indonesia</td><td>mardiana@eng.unila.ac.id</td><td>Indonesia</td><td></td><td></td></tr><tr><td>⋮</td><td>Gigih Forda Nama</td><td>1128623</td><td></td><td></td><td>University of Lampung, Indonesia</td><td>gigih@eng.unila.ac.id</td><td>Indonesia</td><td></td><td></td></tr></table>	Drag to change order	Name	ID	Edit	Flag	Affiliation (edit for paper)	Email	Country	Email	Delete	⋮	Dikpride Despa	1338465	not creator		University of Lampung, Indonesia	despa@eng.unila.ac.id	Indonesia			⋮	Ady Kurniawan	1338469	not creator		University of Lampung, Indonesia	adykurniawan18@gmail.com	Indonesia			⋮	Muhamad Komarudin	1128659	not creator		University of Lampung, Indonesia	komar@eng.unila.ac.id	Indonesia			⋮	Mardiana Mardiana	1338467	not creator		University of Lampung, Indonesia	mardiana@eng.unila.ac.id	Indonesia			⋮	Gigih Forda Nama	1128623			University of Lampung, Indonesia	gigih@eng.unila.ac.id	Indonesia		
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Title		Smart Monitoring of Electrical Quantities Based on Single Board Computer BCM2835																																																												
Abstract		Electricity network needs to be monitored, especially for Voltage (V) measurement, current (A), power factor (cos θ), power (W), and energy consumption (kWh). Monitoring is important, in order to know the quality of electricity supply in the system, identifying disruption events, and to calculate the amount of electrical energy consumption periodically. To achieve the objectives mentioned above, we have made device that can be monitor the electrical quantities in real time, recorded data was stored in to database system, and web application processed this data and shown the statistic reports through a web interface. This research was conducted on the 3 phase electricity at The Integrated Laboratory of the Electrical Engineering Department University of Lampung. Monitoring of voltage, current and energy consumption was done by using a step-down transformer as a voltage sensor, ACS712-30A as current sensors for capture the flow measurement, and TEM015-D4250 kWh meter for measuring energy consumption. Power and Power Factor value was obtained by some of scientific calculation. We used Python programming language for data processing measurement and calculation, running on BCM2835 Single Board Computer. The results of measurements include voltage, current, power factor, power, and the amount of energy consumption was stored in to data base, and data report can be accessed online using web browser. The result of this research shown there were an average error for voltage measurement that was 0.78%, 12.03% for current measurement, 4.84% for power measurement, and 1.87% power factor measurement.																																																												
Keywords	no keywords	3-phase Electrical Networks, Voltage Sensors, Current Sensors, kWh meters, Energy Consumption, BCM2835 Single Board Computer.																																																												
Topics		Power Systems																																																												
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Personal notes



You are the creator and an author for this paper.

Reviews

2 Manuscript reviews

Review 1

Originality	Presentation	Accuracy	Impact	Relevancy	Implication
Good. (4)	Fair. (3)	Fair. (3)	Good. (4)	Fair. (3)	Good. (4)

Recommendation (For the recommendation, please give your recommendation for this manuscript weather it should be: Accept for publication (Please provide comments as you wish), Accept with modifications (Please provide comments below), Reject (Please provide comments below))

MAJOR REVISION is required before paper is accepted, because:
The introduction is trivial, it does not review the problem and latest solution based on the current references.

Format of equations does not follow IEEE suggested format. The authors are suggested to correct them.

The sequence numbers of figures are mistype, i.e. Figure 4 appears twice. The authors are suggested to correct them.

Figure 1,4,5 and table 2 are blurred. The author is strongly suggested to correct and provide all pictures and fonts in better quality of images.

All trends are not clear to read and font in Figure 8-10 are too small to read. The authors are suggested to correct them.

Grammar revision is suggested to carry out for the conclusion and recommendation. Conclusion and recommendation should be address the novelty and show the finding based on proper English structure.

Review 2

Originality	Presentation	Accuracy	Impact	Relevancy	Implication
Fair. (3)	Good (4)	Good. (4)	Good. (4)	Good. (4)	Good. (4)

Recommendation (For the recommendation, please give your recommendation for this manuscript weather it should be: Accept for publication (Please provide comments as you wish), Accept with modifications (Please provide comments below), Reject (Please provide comments below))

The paper is ACCEPTED FOR PUBLICATION.

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1 message

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Thu, Aug 6, 2015 at 2:16 PM

To: Gigih Forda Nama <gigih@eng.unila.ac.id>, Dekpride Despa <despa@eng.unila.ac.id>, Muhamad Komarudin <komar@eng.unila.ac.id>, Mardiana Rendra <mardiana@eng.unila.ac.id>, Ady Kurniawan <adykurniawan18@gmail.com>

Dear Mr. Gigih Nama:

Thank you for uploading your paper 1570211437 (*Smart Monitoring of Electrical Quantities Based on Single Board Computer BCM2835*) to **2015 THE 2nd INTERNATIONAL CONFERENCE ON INFORMATION TECHNOLOGY, COMPUTER, AND ELECTRICAL ENGINEERING**. The paper is of type application/pdf and has a length of 4818330 bytes.

authororder: Authors may be listed in a different order on the manuscript than in the paper record: Gigih Forda Nama (1128623) recognized as Gigih Forda Nama at character 56; Dekpride Despa (1338465) recognized as Despa at character 10; Muhamad Komarudin (1128659) recognized as Komarudin at character 35; Mardiana Rendra (1338467) not found; Ady Kurniawan (1338469) recognized as Ady Kurniawan at character 98 authormissing: 1 author Mardiana Rendra not listed in the paper.

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Regards,
The conference chairs