



Gigih Forda Nama &lt;gigih@eng.unila.ac.id&gt;

**Re: \*\*\*SPAM\*\*\* Fwd: Re:[ICECREAM 2018] Your paper #1570503058 ('A Real-time Schoolchild Shuttle Vehicle Tracking System Base on Android Mobile-apps')**

11 messages

IRSI Admin &lt;admin@irsi.or.id&gt;

Tue, Nov 20, 2018 at 9:03 AM

To: Gigih Forda Nama &lt;gigih@eng.unila.ac.id&gt;

Yes, but itu has to be reviewed by 3 reviewers. You may submit it as your final manuscript until it is reviewed.

Pada 20 Nov 2018 08.52, Gigih Forda Nama <gigih@eng.unila.ac.id> menulis:

Dear ICECREAM Committe,

We try to withdrawn our paper through EDAS web interface, but it said that we should contact the committee, we apologize for paper withdrawn, because our paper was just confirm accepted on journal.

Is there any possibility for us to submit new final manuscript for changing the previous paper?

Thank you,

Regards.

Sent from my Redmi Note 4

----- Forwarded message -----

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

Date: Nov 4, 2018 12:42

Subject: Re:[ICECREAM 2018] Your paper #1570503058 ('A Real-time Schoolchild Shuttle Vehicle Tracking System Base on Android Mobile-apps')

To: admin=irsi.or.id@edas.info

Cc:

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On "(admin@irsi.or.id)" <admin=irsi.or.id@edas.info>, Nov 3, 2018 23:16 wrote:

Dear authors:

Considering that the conference is nearing time, this email is a reminder to immediately register payment. The most recommended payment method is to use a Credit Card.

For questions please contact our representative by WhatsApp +6281572809394

Regards,  
Kind Regards,

ICECREAM Admin  
 (International Conference on Enhanced Computer Research, Engineering, and Advanced Multimedia)  
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**Gigih Forda Nama** <[gigih@eng.unila.ac.id](mailto:gigih@eng.unila.ac.id)>  
 To: [admin@irsil.or.id](mailto:admin@irsil.or.id), DIKPRIDE DESPA <[despa@eng.unila.ac.id](mailto:despa@eng.unila.ac.id)>

Wed, Nov 21, 2018 at 8:26 AM

Dear ICECREAM Committe,

ICECREAM 2018	<i>A Real-time Schoolchild Shuttle Vehicle Tracking System Base on Android Mobile- apps</i>	Accepted with Minor Revisions	(not yet assigned) ©	- until Nov 22, 2018 21:59:59 WIB
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we have final new manuscript, with new title,

## An Enhanced K-Means Clustering Algorithm for Pattern Discovery in Big Data Analysis of 3-Phase Electrical Quantities

Dikpride Despa<sup>1</sup>, Gigih Forda Nama<sup>2</sup>

<sup>1</sup>*Department of Electrical Engineering*

<sup>2</sup>*Department of Informatics*

*University of Lampung*

\*Corresponding author [E-mail:gigih@eng.unila.ac.id](mailto:gigih@eng.unila.ac.id)

But we can't find a menu for new title submission, is there any others way (via email or something else?), or just upload the final manuscript on paper title *A Real-time Schoolchild Shuttle Vehicle Tracking System Base on Android Mobile-apps ?*



Virus-free. [www.avast.com](http://www.avast.com)

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For Fast Response :

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Phone/WA: +62 815-7280-9394

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**Wassalam**  
**Gigih Forda Nama**

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Faculty of Engineering  
University of Lampung

Jl. Sumantri Brojonegoro No. 1

Bandarlampung 35145

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e-mail: [gigih@eng.unila.ac.id](mailto:gigih@eng.unila.ac.id)

Blog : <http://gigihfordanama.wordpress.com>

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 Cc: DIKPRIDE DESPA <[despa@eng.unila.ac.id](mailto:despa@eng.unila.ac.id)>

Thu, Nov 22, 2018 at 6:15 AM

Thank you for your reply, i'm waiting for the respons, but unfortunately if you confirm by today, it is very difficult to us for finding the flight from Bandar Lampung to Yogyakarta on today, while the committee was release the program schedule, start by today and will closed at 17.00 WIB, we can't reach at the time.

Regards.

On Thu, Nov 22, 2018, 05:38 <[admin@irsi.or.id](mailto:admin@irsi.or.id)> wrote:

Dear Sir,

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ICECREAM Admin

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> <<https://edas.info/addAuthorName.php?m=1570503058>>

> <<https://edas.info/withdrawPaper.php?m=1570503058>> (not yet assigned) ©

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> <<https://edas.info/withdrawPaper.php?m=1570503058>> (not yet assigned) ©  
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 > \*Gigih Forda Nama\*
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 > Informatics Engineering  
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 > e-mail: [gigih@eng.unila.ac.id](mailto:gigih@eng.unila.ac.id)  
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## An Enhanced K-Means Clustering Algorithm for Pattern Discovery in Big Data Analysis of 3-Phase Electrical Quantities



**Dikpride Despa<sup>1</sup>, Gigih Forda Nama<sup>2</sup>**<sup>1</sup>Department of Electrical Engineering<sup>2</sup>Department of Informatics

University of Lampung

\*Corresponding author E-mail: [gigih@eng.unila.ac.id](mailto:gigih@eng.unila.ac.id)

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**Abstract**

The Unila Internet of Things Research Group (UIRG) was developed online monitoring of power distribution system based on Internet of Things (IoT) technology on Department of Electrical Engineering University of Lampung (Unila), has been running for several months, this system monitored electrical quantities of 3-phase main distribution panel of H-building. The measurement system involve multiple sensors such current sensors and voltage sensors, the measurement data stored in to database server and shown the information in a real-time through a web-based application.

Main objective of this research was to capture, analyze, and identified the knowledge pattern of electrical quantities data measurements, using Cross-Industry Standard Process for Data Mining (CRISP-DM) data mining framework, for helping the stake holders to continuous improvement of the quality of electricity services, the initial research limited to total 770847 electrical quantities recorded data that save on database system, since 1 September - 31 October 2018, the dataset consist of 21 attribute electrical quantities such as; voltage, current, power factor values, energy consumption, frequency, on H building 3-Phase main panel control.

Rapidminer as leading application on knowledge discovery application was used to analyze the big data, K-Mean cluster algorithm implemented to identify the data pattern, the result indicated that 3-Phase load was unbalanced, and Phase-0 was the most utilized phase, based on from total 5 cluster analysis result.

**Keywords:** Data Mining, Electrical Quantities, Rapidminer, CRISP-DM, K-Mean, Clustering, 3-Phase, Internet of Things (IoT), Big Data.

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> \*Wassalam\*  
 > \*Gigih Forda Nama\*  
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> Informatics Engineering  
 > Faculty of Engineering  
 > University of Lampung  
 > Jl. Sumantri Brojonegoro No. 1  
 > Bandarlampung 35145  
 > Mobile Phone: +62-852-8977-4152  
 > e-mail: [gigih@eng.unila.ac.id](mailto:gigih@eng.unila.ac.id)  
 > Blog : <http://gigihfordanama.wordpress.com>  
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> Analysis of 3-Phase Electrical Quantities  
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> \*1\*\*Department of Electrical Engineering\*  
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> \*2\*\*Department of Informatics\*  
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> \*University of Lampung\*  
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> \*\*Corresponding author E-mail:[gigih@eng.unila.ac.id](mailto:gigih@eng.unila.ac.id)  
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>> Schoolchild Shuttle Vehicle Tracking System Base on Android Mobile-apps')

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>> wrote:

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 e-mail: [gigih@eng.unila.ac.id](mailto:gigih@eng.unila.ac.id)  
 Blog : <http://gigihfordanama.wordpress.com>

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## An Enhanced K-Means Clustering Algorithm for Pattern Discovery in Big Data Analysis of 3-Phase Electrical Quantities

Dikpride Despa<sup>1</sup>, Gigih Forda Nama<sup>2</sup>

<sup>1</sup>*Department of Electrical Engineering*

<sup>2</sup>*Department of Informatics*

*University of Lampung*

*\*Corresponding author E-mail: [gigih@eng.unila.ac.id](mailto:gigih@eng.unila.ac.id)*

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### Abstract

The Unila Internet of Things Research Group (UIRG) was developed online monitoring of power distribution system based on Internet of Things (IoT) technology on Department of Electrical Engineering University of Lampung (Unila), has been running for several months, this system monitored electrical quantities of 3-phase main distribution panel of H-building. The measurement system involve multiple sensors such current sensors and voltage sensors, the measurement data stored in to database server and shown the information in a real-time through a web-based application.

Main objective of this research was to capture, analyze, and identified the knowledge pattern of electrical quantities data measurements, using Cross-Industry Standard Process for Data Mining (CRISP-DM) data mining framework, for helping the stake holders to continuous improvement of the quality of electricity services, the initial research limited to total 770847 electrical quantities recorded data that save on database system, since 1 September - 31 October 2018, the dataset consist of 21 attribute electrical quantities such as; voltage, current, power factor values, energy consumption, frequency, on H building 3-Phase main panel control.

Rapidminer as leading application on knowledge discovery application was used to analyze the big data, K-Mean cluster algorithm implemented to identify the data pattern, the result indicated that 3-Phase load was unbalanced, and Phase-0 was the most utilized phase, based on from total 5 cluster analysis result.

**Keywords:** *Data Mining, Electrical Quantities, Rapidminer, CRISP-DM, K-Mean, Clustering, 3-Phase, Internet of Things (IoT), Big Data.*

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Thank you for your reply, i'm waiting for the respons, but unfortunately if you confirm by today, it is very difficult to us for finding the flight from Bandar Lampung to Yogyakarta on today, while the committee was release the program schedule, start by today and will closed at 17.00 WIB, we can't reach at the time.

Regards.

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> \*Dikpride Despa1, Gigih Forda Nama2\*

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> \*1\*\*Department of Electrical Engineering\*

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> \*2\*\*Department of Informatics\*

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> \*University of Lampung\*

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> \*\*Corresponding author E-mail:[gigih@eng.unila.ac.id](mailto:gigih@eng.unila.ac.id)

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> Mobile Phone: +62-852-8977-4152  
> e-mail: [gigih@eng.unila.ac.id](mailto:gigih@eng.unila.ac.id)  
> Blog : <http://gigihfordanama.wordpress.com>  
> \*=====\*>  
> <[https://www.avast.com/sig-email?utm\\_medium=email&utm\\_source=link&utm\\_campaign=sig-email&utm\\_content=webmail](https://www.avast.com/sig-email?utm_medium=email&utm_source=link&utm_campaign=sig-email&utm_content=webmail)>  
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**Gigih Forda Nama**

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To: [admin@irsi.or.id](mailto:admin@irsi.or.id)  
Cc: DIKPRIDE DESPA <[despa@eng.unila.ac.id](mailto:despa@eng.unila.ac.id)>

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## **An Enhanced K-Means Clustering Algorithm for Pattern Discovery in Big Data Analysis of 3-Phase Electrical Quantities**

**Dikpride Despa<sup>1</sup>, Gigih Forda Nama<sup>2</sup>**

<sup>1</sup>*Department of Electrical Engineering*

<sup>2</sup>*Department of Informatics*

*University of Lampung*

*\*Corresponding author E-mail: [gigih@eng.unila.ac.id](mailto:gigih@eng.unila.ac.id)*

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**Abstract**

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*Keywords: Data Mining, Electrical Quantities, Rapidminer, CRISP-DM, K-Mean, Clustering, 3-Phase, Internet of Things (IoT), Big Data.*

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Faculty of Engineering  
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## An Enhanced K-Means Clustering Algorithm for Pattern Discovery in Big Data Analysis of 3-Phase Electrical Quantities

Dikpride Despa<sup>1</sup>, Gigih Forda Nama<sup>2</sup>

<sup>1</sup>*Department of Electrical Engineering*

<sup>2</sup>*Department of Informatics*

*University of Lampung*

\*Corresponding author E-mail: [gigih@eng.unila.ac.id](mailto:gigih@eng.unila.ac.id)

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### Abstract

The Unila Internet of Things Research Group (UIRG) was developed online monitoring of power distribution system based on Internet of Things (IoT) technology on Department of Electrical Engineering University of Lampung (Unila), has been running for several months, this system monitored electrical quantities of 3-phase main distribution panel of H-building. The measurement system involve multiple sensors such current sensors and voltage sensors, the measurement data stored in to database server and shown the information in a real-time through a web-based application.

Main objective of this research was to capture, analyze, and identified the knowledge pattern of electrical quantities data measurements, using Cross-Industry Standard Process for Data Mining (CRISP-DM) data mining framework, for helping the stake holders to continuous improvement of the quality of electricity services, the initial research limited to total 770847 electrical quantities recorded data that save on database system, since 1 September - 31 October 2018, the dataset consist of 21 attribute electrical quantities such as; voltage, current, power factor values, energy consumption, frequency, on H building 3-Phase main panel control.

Rapidminer as leading application on knowledge discovery application was used to analyze the big data, K-Mean cluster algorithm implemented to identify the data pattern, the result indicated that 3-Phase load was unbalanced, and Phase-0 was the most utilized phase, based on from total 5 cluster analysis result.

*Keywords: Data Mining, Electrical Quantities, Rapidminer, CRISP-DM, K-Mean, Clustering, 3-Phase, Internet of Things (IoT), Big Data.*

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> \*1\*\*Department of Electrical Engineering\*  
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> \*2\*\*Department of Informatics\*  
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> \*\*Corresponding author E-mail:[gigih@eng.unila.ac.id](mailto:gigih@eng.unila.ac.id)  
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> Informatics Engineering  
> Faculty of Engineering  
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**Wassalam**  
**Gigih Forda Nama**

Informatics Engineering  
Faculty of Engineering  
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Blog : <http://gigihfordanama.wordpress.com>

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## An Enhanced K-Means Clustering Algorithm for Pattern Discovery in Big Data Analysis of 3-Phase Electrical Quantities

Dikpride Despa<sup>1</sup>, Gigih Forda Nama<sup>2</sup>

<sup>1</sup>*Department of Electrical Engineering*

<sup>2</sup>*Department of Informatics*

*University of Lampung*

*\*Corresponding author E-mail: [gigih@eng.unila.ac.id](mailto:gigih@eng.unila.ac.id)*

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### Abstract

The Unila Internet of Things Research Group (UIRG) was developed online monitoring of power distribution system based on Internet of Things (IoT) technology on Department of Electrical Engineering University of Lampung (Unila), has been running for several months, this system monitored electrical quantities of 3-phase main distribution panel of H-building. The measurement system involve multiple sensors such current sensors and voltage sensors, the measurement data stored in to database server and shown the information in a real-time through a web-based application.

Main objective of this research was to capture, analyze, and identified the knowledge pattern of electrical quantities data measurements, using Cross-Industry Standard Process for Data Mining (CRISP-DM) data mining framework, for helping the stake holders to continuous improvement of the quality of electricity services, the initial research limited to total 770847 electrical quantities recorded data that save on database system, since 1 September - 31 October 2018, the dataset consist of 21 attribute electrical quantities such as; voltage, current, power factor values, energy consumption, frequency, on H building 3-Phase main panel control.

Rapidminer as leading application on knowledge discovery application was used to analyze the big data, K-Mean cluster algorithm implemented to identify the data pattern, the result indicated that 3-Phase load was unbalanced, and Phase-0 was the most utilized phase, based on from total 5 cluster analysis result.

**Keywords:** Data Mining, Electrical Quantities, Rapidminer, CRISP-DM, K-Mean, Clustering, 3-Phase, Internet of Things (IoT), Big Data.

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> \*\*Corresponding author E-mail:[gigih@eng.unila.ac.id](mailto:gigih@eng.unila.ac.id)

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> <[https://www.avast.com/sig-email?utm\\_medium=email&utm\\_source=link&utm\\_campaign=sig-email&utm\\_content=webmail](https://www.avast.com/sig-email?utm_medium=email&utm_source=link&utm_campaign=sig-email&utm_content=webmail)>

> Virus-free.

> [www.avast.com](http://www.avast.com)

> <[https://www.avast.com/sig-email?utm\\_medium=email&utm\\_source=link&utm\\_campaign=sig-email&utm\\_content=webmail](https://www.avast.com/sig-email?utm_medium=email&utm_source=link&utm_campaign=sig-email&utm_content=webmail)>

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**3 attachments**

**WhatsApp Image 2018-11-22 at 12.03.58 (1).jpeg**



