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To: Soelistijanto B <b.soelistijanto@usd.ac.id>

Dear Dr. Bambang Soelistijanto:

Thank you for uploading your paper 1570431423 (*Improving Node Popularity Calculation using Kalman Filter in Opportunistic Mobile Social Networks*) to **2018 6th International Conference on Information and Communication Technology (ICoICT)**. The paper is of type application/pdf and has a length of 301631 bytes.

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Regards, Parman Sukarno, Ph.D General Chair of ICoICT 2018 [ICoICT 2018] Your paper #1570431423 ('Improving Node Popularity Calculation using Kalman Filter in Opportunistic Mobile Social Networks')

EDAS Conference Manager <help@edas-help.com> on behalf of info2018@icoict.org.edas.info <info2018@icoict.org.edas.info> Fri 3/9/2018 2:04 PM To: Soelistijanto B <b.soelistijanto@usd.ac.id> Dear Dr. Bambang Soelistijanto:

On behalf of the ICoICT 2018 Program Committee, we have the pleasure to inform you that your paper titled "Improving Node Popularity Calculation using Kalman Filter in Opportunistic Mobile Social Networks" has been ACCEPTED to be part of the ICoICT 2018 Conference.

Furthermore, we ask you to consider reviewers' comments to prepare your camera-ready version. They are located at the end of this e-mail. In addition, please check again IEEE conference template and make sure that your paper follows the template.

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Please be noted that papers that will be submitted to IEEE Xplore are those that are accepted and presented at the conference. Details of the

registration process are available at http://www.icoict.org/registration/.

Author registration deadline is April 10, 2018.

See you in Bandung, Indonesia.

Best regards, Parman Sukarno, Ph.D General Chair of ICoICT 2018

====== Review 1 ======

> \*\*\* Detailed Comments: Please justify your recommendation and suggest improvements in technical content or presentation.

There is no explanation on related research or comparison study about the same issue investigated, if it is the first to study the problem, please state it.

====== Review 2 ======

> \*\*\* Detailed Comments: Please justify your recommendation and suggest improvements in technical content or presentation.

The validation of results is not presented in this paper. Moreover, the conclusion is not strong enough, please provide the exact meaning of acceptable. I believe this paper has an interesting result, but authors fail to present their result well.

====== Review 3 ======

> \*\*\* Detailed Comments: Please justify your recommendation and suggest improvements in technical content or presentation.

This is a good paper, good writing, well structured. But I have one suggestion: You said that your paper proposed a novel method. It would be better if you add an explanation of the novelty of your method. Of course, you should refer to the studies on the node degree computation area, that has been done.

====== Review 4 ======

> \*\*\* Detailed Comments: Please justify your recommendation and suggest improvements in technical content or presentation.

The paper aims to improve node popularity calculation using Kalman Filter in opportunistic mobile social networks. The paper is well structured. However, the novelty claim could be clearly stated and justified based on research gap in the area of node degree computation.



ICoICT 2018

#105 (1570431423): Improving Node Popularity Calculation using Kalman Filter in Opportunistic Mobile Social Networks #105 (1570431423): Improving Node Popularity Calculation using Kalman Filter in Opportunistic Mobile Social Networks

ВівТ<sub>Е</sub>Х

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<b>Conference</b> and <i>track</i>		<b>2018 6th International Conference on Information and Communication Technology (ICoICT)</b> - Connecting Societies									
Authors		Name	ID	Edit	Flag	Affiliation (edit for paper)	Email	Country	Register		
		Bambang Soelistijanto	731989	Ľ		Sanata Dharma University, Indonesia	b.soelistijanto@usd.ac.id	Indonesia	B		
Title	Only the chairs can edit	Improving Nod	le Popular	ity Calc	rulation	using Kalman	Filter in Opportunistic Mobi	le Social Net	works		
Abstract	Only the chairs can edit	Opportunistic mo algorithms in the	bile social n se networks	etworks typically	(OMSNs) favour tl	exploit human m he most popular	obility to physically carry messag individuals (nodes) as optimal ca	es to the destir rriers for messa	nations. Routing age transfers to		

achieve a high delivery ratio and a short delay. Properly detection of node popularity is therefore essential to keep the algorithms'

performances high. Our study however found that node popularity, measured in node degree, in real-life OMSNs varies rapidly and significantly in time. Consequently, properly detecting an instantaneous node degree value is a challenging task in this setting. To tackle this problem, we propose a novel method of node degree computation based on the Kalman-filter theory. Using simulation, we showed that our approach can increase BubbleRap's performance, i.e. delivery ratio and traffic distribution fairness, beyond that of its original version that uses a cumulative moving average strategy to identify a node's degree value at a time.

Keywords	Only the chairs can edit	node degree; Kalman-filter; cumulative moving average						
Topics	Only the chairs can edit	Social Sensing and Networking; Algorithm and application						
Presenter(s)	<b>±</b>	Bambang Soelistijanto (bio) 🖄						
Registration	B	<b>⊕</b>						
Session		The program is not yet visible.						
DOI	Only the chairs can edit							
Status		Accepted						
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## **Personal notes**

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You are the creator and an author for this paper.

## Reviews

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