October, 20th 2018

Letter of Acceptance (LoA)

Dear **Mr. Bambang Soelistijanto,**

Congratulations - We are pleased to inform you that your paper:

#1570497182: ("Performance Comparison of Deterministic and Stochastic Utility Ascent Routing Algorithms in Opportunistic Mobile Networks")

has been **ACCEPTED** and will be presented in the ICONISCSE 2018 parallel session. The conference will be held on **November, 26th-27th 2018** in **Palembang, Indonesia**.

Please submit your final paper and make the payment for registration fee before November 9th, 2018. After making the payment, please confirm your attendance by register via following link http://bit.ly/FORM-ICONISCSE2018-Presenter.

For further information, please kindly visit our website for more information http://iconiscse.org/ .
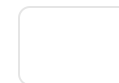
All accepted, registered and presented papers will be published in the open access **Journal of Physics: Conference Series (JPCS)**, published by **IOP Publishing indexed in Scopus**, as well as **EI Compendex and Inspec**.

Regards,
ICONISCSE 2018 chairs

Dr. Ir. Sukemi, M.T.

#99 (1570497182): Performance Comparison of Deterministic and Stochastic Utility Ascent Routing Algorithms in Opportunistic Mobile Networks

#99 (1570497182): *Performance Comparison of Deterministic and Stochastic Utility Ascent Routing Algorithms in Opportunistic Mobile Networks*

BIBTEX

Property	Change Add	Value
Conference and *track*		**2018 International Conference on Information System Computer Science and Engineering (ICONISCSE)** - *Computer Science*

Authors							
	Name	**ID**	**Edit**	**Flag**	**Affiliation (edit for paper)**	**Email**	**Country**
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Title	Only the chairs can edit	*Performance Comparison of Deterministic and Stochastic Utility Ascent Routing Algorithms in Opportunistic Mobile Networks*

Abstract	Only the chairs can edit	Opportunistic mobile networks (OMNs) are a class of MANETs where complete end-to-end paths rarely exist between sources and destinations; consequently, the end-to-end delays in these networks are much greater than typical MANETs. In this harsh environment, networking algorithm actions and decisions are inherently local; the algorithms are mostly greedy, choosing the best solution among the locally ones. In this paper, we study the delivery performance of two classes of gradient utility ascent routing algorithms, deterministic (greedy) and stochastic utility ascent ones, in OMNs. We furthermore discuss the impact of these algorithms on traffic load distribution fairness among the network nodes, since this issue is critical in mobile networking whose nodes typically possess limited resources, e.g. power and storage capacity. Using simulation, driven by real human mobility traces, we investigate the performance of greedy ascent algorithms, Hill Climbing (HC) and Delegation Forwarding (DF), compared with that of stochastic ascent algorithms, Simulated Annealing (SA). Simulation results showed that SA outperforms both HC and DF in terms of total delivered messages, average delivery latency and traffic distribution fairness; however, SA negatively impacts the delivery cost performance, i.e. increasing the total message copies beyond those of HC and DF.

Keywords	Only the chairs can edit	Distributed optimization; Gradient utility ascent routing; Opportunistic Mobile Networks
Topics	Only the chairs can edit	Distributed Systems
Presenter(s)	⊞	presenter not specified
DOI	Only the chairs can edit	
Status		Accepted
Auxiliary files	Could upload until Nov 9, 2018 06:59 America/New_York.	However, authors cannot upload: auxiliary deadline

However, authors cannot upload: final deadline

Final manuscript	Could upload until Nov 28, 2018 06:59 America/New_York.	Document (show)	Pages	File size	Changed
		📄PDF	6	226,251	Nov 2, 2018 02:36 America/New_York ↻

Personal notes

⊞

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

Reviews

2 Iconiscse2018-reviews

Review 1

Originality
Some interesting and new ideas presented

(2)

Quality
The quality of the paper is good and acceptable

(3)

Relevance
The paper has major relationships with the scope of the conference

(3)

Presentation
The paper is written in good English

(3)

Detailed Comments (Add your detailed comments to the authors)

1. Strengthen your state of the art with update references.
2. Abstract and conclusion should revise and put the summary of research result in the quantitative value at the end of the paragraph.
3. Present your research result in the quantitative value in the simulation result section.

Review 2

Originality
Some interesting and new ideas presented

(2)

Quality
The quality of the paper is good and acceptable

(3)

Relevance
The paper is quite relevant with the scope of the conference

(2)

Presentation
The paper is written in fair English

(2)

Detailed Comments (Add your detailed comments to the authors)

Writing and drawing formats are good. Figure 4 has not been mentioned and there is no narration. Figure 7 should not be placed after the conclusion but transferred to the results. References should be replaced with the latest for the last 5 years.