JCSSE2019

#119 (1570547291): Sequence Diagram Similarity Measurement: A Different Approach

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	Evi Triandini		Institut Teknologi dan Bisnis STIKOM Bali, Indonesia	evi@stikom-bali.ac.id		
	Reza Fauzan		Politeknik Negeri Banjarmasin, Indonesia	reza.fauzan@poliban.ac.id		
	Daniel Siahaan		Institut teknologi Sepuluh Nopember, Indonesia	daniel@if.its.ac.id		
	Siti Rochimah		Institut Teknologi Sepuluh Nopember, Indonesia	siti@if.its.ac.id		

Paper title	*Sequence Diagram Similarity Measurement: A Different Approach*
Conference and track	**2019 16th International Joint Conference on Computer Science and Software Engineering (JCSSE)** - *JCSSE Regular*
Abstract	Only the chairs can edit Unified Modified Language (UML) is a modeling language standard for identifying, recording and...
Keywords	sequence diagram; measurement similarity method; UML similarity Only the chairs can edit
Topics	Software Engineering Only the chairs can edit
Similarity	On Apr 18, 2019 01:18 America/New_York, ithenticate computed a similarity score of 4 for the review manuscript.
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Status	Accepted with major revisions
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Presented	by Reza Fauzan (bio)

Review manuscript	Final manuscript

JCSSE'19 Review

Actions	Technical content and scientific rigour	Relevance to the conference	Novelty and originality	Quality of presentation
completed	Marginal work and simple contribution. Some flaws. **2**	Good **4**	It has been said many times before. **1**	Readable, but revision is needed in some parts. **3**

Detailed comments

Author can compare various similarity measures and justify the reason for choosing one among others. Also approach to identify weight should be discussed. Further research should be conducted to strengthen the work proposed.

completed	Valid work but limited contribution. **3**	Acceptable **3**	Minor variations on a well investigated subject. **2**	Readable, but revision is needed in some parts. **3**

Detailed comments

This paper proposes a method of calculating similarities between details of properties and messages in the sequence diagrams for enabling software engineers to develop a project not from scratch, but from an existing project of a similar.

In the future, we suggest an additional preprocessing method from NLP, such as deleting stopword, which will eliminate irrelevant words or find stemming words for normalization word.

The words may need revision in the last paragraph of EMPIRICAL RESULT AND ANALYSIS topic.
"similarity between tow sequence diagram"
"tow" must be "two"?

completed	Valid work but limited contribution. **3**	Good **4**	Minor variations on a well investigated subject. **2**	Substantial revision work is needed. **2**

Actions	Technical content and scientific rigour	Relevance to the conference	Novelty and originality	Quality of presentation

Detailed comments

1. this work presents one small and specific case that does not scale up in real working project. It is based on textual contents, namely, source class name, method name, and destination class name. In any large scale project utilizing virtual team, duplication and name clashes are inevitable. This issue is never discussed in the article.
2. formulation and procedures are very haphazard. The results are obtained from a limited test set which has no significant statistical reliability.
3. the authors should experiment on a few real projects and collect actual test statistics to validate a stronger finding.

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