

**Review Form: 1<sup>st</sup> International Workshop on  
Services and Infrastructure for the Ubiquitous and Mobile Internet (SIUMI'05)**



**SIUMI 2005**

**WEB MINDS**

Columbus, Ohio,  
USA, June 6<sup>th</sup>, 2005

In conjunction with the 25th Int. Conference on Distributed Computing Systems (**ICDCS'05**)

Paper Number: #24

Paper Title: "Temporal Logical-based Web Services Architecture Description"

Authors: Rao Yuan, Li Zunchao, Feng Boqing

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**Reviewer1:**

<b>Familiarity</b> Rate your familiarity with the topic	1	2X	3	4	
	Novice	Some knowledge	Familiar	Expert	
<b>Significance</b> Technical relevance and practicality of ideas in the paper	1X	2	3		
	Not significant	Somewhat significant	Highly significant		
<b>Novelty</b> How original the problem and/or solution method is	1	2	3		
	Not novel	Somewhat novel	Highly novel		
<b>Quality of Presentation</b> Writing and presentation style/accuracy	1	2X	3		
	Poorly written	Could be improved	Well written		
<b>Overall Recommendation</b>	1	2X	3	4	5
	Strong reject	Weak reject	Weak accept	Accept	Strong accept

**Contributions**

Due to the very limited knowledge of the reviewer in the discipline of temporal logic, it is hard to express an opinion on the technical contributions of the work. In any case, it is hard to imagine how this theoretical framework fits in the technical agenda of this workshop.

**Strengths and weaknesses**

**Detailed public comments**

**Reviewer2:**

<b>Familiarity</b> Rate your familiarity with the topic	1	2	X 3	4	
	Novice	Some knowledge	Familiar	Expert	
<b>Significance</b> Technical relevance and practicality of ideas in the paper	1	X 2	3		
	Not significant	Somewhat significant	Highly significant		
<b>Novelty</b> How original the problem and/or solution method is	1	2	3		
	Not novel	Somewhat novel	Highly novel		
<b>Quality of Presentation</b> Writing and presentation style/accuracy	X 1	2	3		
	Poorly written	Could be improved	Well written		
<b>Overall Recommendation</b>	X 1	2	3	4	5
	Strong reject	Weak reject	Weak accept	Accept	Strong accept

**Contributions****Strengths and weaknesses**

I'm sorry but the paper is so poorly written (mostly English) that I'm unable to evaluate the actual contribution. I suggest rejection since I don't think appropriate the publication of the current draft.

**Detailed public comments**

**Reviewer3:**

<b>Familiarity</b> Rate your familiarity with the topic	1	2	3X	4	
	Novice	Some knowledge	Familiar	Expert	
<b>Significance</b> Technical relevance and practicality of ideas in the paper	1X	2	3		
	Not significant	Somewhat significant	Highly significant		
<b>Novelty</b> How original the problem and/or solution method is	1	2X	3		
	Not novel	Somewhat novel	Highly novel		
<b>Quality of Presentation</b> Writing and presentation style/accuracy	1X	2	3		
	Poorly written	Could be improved	Well written		
<b>Overall Recommendation</b>	1X	2	3	4	5
	Strong reject	Weak reject	Weak accept	Accept	Strong accept

**Contributions**

The paper describes an approach for formal validation and description of web services architectures.  
The paper seems to be out of scope for this workshop as there is no hint on how this ADL could be used for dealing with problems introduced by disconnections and mobility.

**Strengths and weaknesses**

- not in scope
- not very well written

**Reviewer4:**

<b>Familiarity</b> Rate your familiarity with the topic	1	2	3X	4
	Novice	Some knowledge	Familiar	Expert
<b>Significance</b> Technical relevance and practicality of ideas in the paper	1	2X	3	
	Not significant	Somewhat significant	Highly significant	
<b>Novelty</b> How original the problem and/or solution method is	1X	2	3	
	Not novel	Somewhat novel	Highly novel	
<b>Quality of Presentation</b> Writing and presentation style/accuracy	1X	2	3	
	Poorly written	Could be improved	Well written	

Overall Recommendation	1	2X	3	4	5
	Strong reject	<b>Weak reject</b>	Weak accept	Accept	Strong accept

### Contributions

The intended contribution is the use of Temporal Logic in order to guarantee compositional properties in Web Services.

The idea is more or less obvious, and the contribution would be important if the authors were able to show the advantages of the proposed approach on significant case studies. Instead they provide only small examples to illustrate some of the technical details.

### Strengths and weaknesses

- + potentially good idea to guarantee compositional properties
- no actual validation of its practical applicability

### Detailed public comments

First of all I must complain about the writing that makes the paper very difficult to follow and understand. Several sentences are too long and lack proper syntactic structure. Several typos also affect readability.

As a general remark, I think that the proposed technique would require a practical validation in order to become acceptable by others. I would recommend to try to apply it to some non-trivial case study, in order to show how easy/difficult is to apply in practice.

A specific comment regarding Definition 4, page 6. Why is this called "security"? In my opinion this has nothing to do with what a computer scientist understands when one speaks about computer security (privacy, availability, authenticity, integrity, etc.). As far as I understand it, this is a property related to the "termination" of services rather than their security.