Context-aware Reputation Framework (CaRF)

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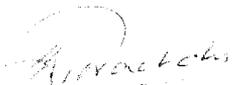University of Moratuwa
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Abstract

Reputation a key factor in day-to-day decision making is making inroads to computer systems as well. While computer systems are becoming more and more interconnected and 'social networking' become more and more promising digital reputation gains high attention.

Context is an important aspect of reputation which is widely and conveniently ignored in reputation systems. But without context, reputation will be single faceted and of less use.

This dissertation proposes a reputation framework which incorporates context into the reputation and supports upcoming Semantic Web concepts. It also proposes the usage of Subjective Logic as the mechanism to calculate reputation as it resembles the human nature closely.

The discussion of this work is on a minimal implementation of such a framework which would serve the basis for future enhancements.

I hereby declare that the work included in this dissertation has not been submitted in part or whole for any other academic qualification at any institution.

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(Supervisor)

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Symbols, Notations, Abbreviations and Acronyms

CaRF	Context-aware Reputation Framework
WWW	World Wide Web
HTML	Hyper Text Markup Language
RDF	Resource Description Framework
RDFS	Resource Description Framework Schema
OWL	Web Ontology Language
DAML	DARPA (Defense Advanced Research Projects Agency) Agent Markup Language
OIL	Ontology Inference Language
URI	Uniform Resource Identifier
XML	Extensible Markup Language
W3C	World Wide Web Consortium
SPARQL	Recursively, SPARQL Protocol and RDF Query Language