

Metamodel for Artefacts in Service Engineering Analysis and Design

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Abstract : As a process of developing a service system, the term 'service engineering' evolves in scope and definition. To achieve an integrated understanding of the process, a general framework and an ontology are required. This paper extends a previously built service engineering framework by exploring metamodels for the framework artefacts based on a foundational ontology and a metamodel landscape. The first part of this paper presents a correlation map between the proposed framework with the ontology as a form of evaluation for the conceptual coverage of the framework. The mapping also serves to characterize the artefacts to be produced for each activity in the framework. The second part describes potential metamodels to be used, from the metamodel landscape, as alternative formats of the framework artefacts. The results suggest that the framework sufficiently covers the ontological concepts, both from general service context and software service context. The metamodel exploration enriches the suggested artefact format from the original eighteen formats to thirty metamodel alternatives.

Keywords : artefact, framework, service, metamodel

Conference Title : ICSOAEA 2018 : International Conference on Service-Oriented Architecture and Engineering Applications

Conference Location : Osaka, Japan

Conference Dates : September 13-14, 2018