Towards a Hybrid Approach for Software Project Management using Ontology Alignment

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Authors:
Abdelghany Salah Abdelghany, Nagy Ramadan Darwish, Hesham Ahmed Hefny

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Abstract

Many software projects are still behind schedule, over budget estimates and fail to meet user requirements. One of the important reasons for those failures is a lack of project management. With the growing trend of adopting the agile methodologies, there are two opposite sides: agile and traditional project management approach. It is advisable to use both approaches or to combine them within a software company. This may be useful for software companies that run different projects using different project management methodologies. So, the question is how to integrate both approaches in a single project management framework. In this paper, the researchers propose a novel approach that combines different project management methodologies based on the alignment of their ontological models. Two project management methodologies are considered: Scrum and PMBOK representing agile and traditional approach respectively. This approach also helps introduce new tools or integrate the existing tools for supporting this integration.
References


Index Terms

Computer Science
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Keywords

Software Development, Agile Methodologies, PMBOK, Scrum, Ontology Alignment Process, Ontology Matching Techniques