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Titel des Beitrags: Structural analysis of requirements - interpretation of structural criterions

Seitenangaben Beitrag: 249-261

Abstract:
The interpretation of different structural criterions can be used to identify significant requirements in a regarded system. Consequently, the definition of tasks in requirements management can be supported. Not only the quality of the requirements model can be assessed and improved by hinting at critical elements and relations, but also the classification of requirements and the evaluation of how and up to which degree changes impact the related requirements can be facilitated. As, only some first structural criterions have been used to support the modelling and analysis of requirements, no exhaustive list of possible interpretations of such criterions in the context of requirements has been presented in any contributions to literature. The matrix-based approaches concerning requirements all deal with building the network of requirements and how the latter are translated or realized by the components, working principles etc. The relations between the requirements are not analysed from a structural perspective. Further the contributions mentioned above aim at an integrated management and modelling of requirements, but do not cover the structural perspective within a
requirements DSM. They mostly focus on requirements-components DMMs. This paper proposes interpretations of structural criterions identified within a network of requirements modelled in a DSM.

Stichworte: requirements; structural analysis; structural criterion; DSM

Herausgeber: David C. Wynn, Matthias Kreimeyer; Katharina Eben, Maik Maurer; Udo Lindemann, John Clarkson

Kongress- / Buchtitel: 12th International DSM Conference

Kongress / Zusatzinformationen: 22.-23.07.2010

Konferenzort: Cambridge, UK

Verlag / Institution: Hanser

Verlagsort: Munich

Jahr: 2010

Semester (für SAP-Datenerfassung): SS 10

Occurences:
- Einrichtungen > Fakultäten > Fakultät für Maschinenwesen > Institut für Mechatronik > Lehrstuhl für Produktentwicklung und Leichtbau (Prof. Zimmermann) > Konferenzbeiträge
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