Assessing the cost saving potential of shared product architectures - DTU Orbit (27/12/2018)

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This article presents a method for calculating cost savings of shared architectures in industrial companies called Architecture Mapping and Evaluation. The main contribution is an operational method to evaluate the cost potential and evaluate the number of product architectures in an industrial company. Experiences from the case company show it is possible to reduce the number of architectures with 60% which leads to significant reduction in direct material and labor costs. This can be achieved without compromising the market offerings of products. Experiences from the case study indicate cost reductions between 0.5% and 2% of turnover. The main implication is that the method provides a quantitative basis for the discussion on whether or not to implement shared product architectures. This means a more fact-based approach is introduced.

General information
State: Published
Organisations: Department of Mechanical Engineering, Engineering Design and Product Development, Department of Management Engineering, Management Science
Contributors: Mortensen, N. H., Hansen, C. L., Løkkegaard, M., Hvam, L.
Pages: 153-163
Publication date: 2016
Peer-reviewed: Yes

Publication information
Journal: Concurrent Engineering: Research and Applications
Volume: 24
Issue number: 2
ISSN (Print): 1063-293X
Ratings:
BFI (2018): BFI-level 2
Web of Science (2018): Indexed yes
BFI (2017): BFI-level 1
Scopus rating (2017): CiteScore 1.66 SJR 0.642 SNIP 1.133
Web of Science (2017): Impact factor 1.456
Web of Science (2017): Indexed yes
BFI (2016): BFI-level 1
Scopus rating (2016): CiteScore 1.45 SJR 0.549 SNIP 1.116
Web of Science (2016): Impact factor 1
Web of Science (2016): Indexed yes
BFI (2015): BFI-level 1
Scopus rating (2015): CiteScore 1.14 SJR 0.574 SNIP 1.023
Web of Science (2015): Impact factor 1.02
Web of Science (2015): Indexed yes
BFI (2014): BFI-level 1
Scopus rating (2014): CiteScore 1.08 SJR 0.386 SNIP 0.826
Web of Science (2014): Impact factor 0.851
Web of Science (2014): Indexed yes
BFI (2013): BFI-level 1
Scopus rating (2013): CiteScore 0.9 SJR 0.485 SNIP 1.007
Web of Science (2013): Impact factor 0.531
ISI indexed (2013): ISI indexed yes
BFI (2012): BFI-level 1
Scopus rating (2012): CiteScore 0.65 SJR 0.437 SNIP 0.69
Web of Science (2012): Impact factor 0.542
ISI indexed (2012): ISI indexed yes
BFI (2011): BFI-level 1
Scopus rating (2011): CiteScore 0.89 SJR 0.364 SNIP 0.922
Web of Science (2011): Impact factor 0.478
ISI indexed (2011): ISI indexed yes
BFI (2010): BFI-level 1