Abstract:
The trend towards an integration of individual customer demands becomes more and more visible in today’s industry. In this context several methods for the handling of the associated product complexity have been developed. Typically, these methods only focus on explicit and discontinuous specifications of variants. However, for manufacturers who want to offer possibilities of product customization, an abstract pre-planning of largely continuous product spectra is required. In this approach, we acquire possibilities to identify possible conflicts and potentials for the product specification in conceptional product spectra at early design phases. The deduction of the sensitivity as a specific index helps to classify the abstract elements. With the development of a prototypic tool, we provide fundamental interaction with product spectra to reduce design efforts, caused by individual customer requests.

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