Niels Henrik Mortensen - DTU Orbit (07/02/2019)

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Research outputs:

The impact of applying product-modelling techniques in configurator projects
Research output: Research - peer-review › Journal article – Annual report year: 2019

Achieving long-term modularization benefits: A small- and medium-sized enterprise study
Research output: Research - peer-review › Journal article – Annual report year: 2018

Application of a graphical scheme for representing the mode of action of products for identification of key characteristics
Research output: Research - peer-review › Conference article – Annual report year: 2018

Assessing Increased Product Line Commonality’s Effect on Assembly
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

A study of cost implications from not maintaining a PCS
Research output: Research - peer-review › Paper – Annual report year: 2018

Design for manufacturability of macro and micro products: a case study of heat exchanger design
Research output: Research - peer-review › Journal article – Annual report year: 2018

Design Thinking in Product Configuration Projects
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2018

The main challenges for manufacturing companies in implementing and utilizing configurators
Research output: Research - peer-review › Journal article – Annual report year: 2018

Using business critical design rules to frame new architecture introduction in multi-architecture portfolios
Research output: Research - peer-review › Journal article – Annual report year: 2018

A Framework for Determining Product Modularity Levels
Research output: Research - peer-review › Journal article – Annual report year: 2017

Assessing the financial potential for modularization: A case study in a global OEM
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017
Construction of Lightweight Loudspeaker Enclosures
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017

Editorial
Research output: Research › Editorial – Annual report year: 2017

Empirical study of ill-supported activities in variation risk identification and assessment in early stage product development
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017

Identification of critical technology building blocks
Research output: Research - peer-review › Journal article – Annual report year: 2017

Including product features in process redesign
Research output: Research - peer-review › Journal article – Annual report year: 2017

Increased accuracy of cost-estimation using product configuration systems
Research output: Research - peer-review › Paper – Annual report year: 2017

Information rich mapping requirement to product architecture through functional system deployment: The multi entity domain approach
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017

A multi-layered approach to product architecture modeling: Applied to technology prototypes
Research output: Research - peer-review › Journal article – Annual report year: 2015

Assessing the cost saving potential of shared product architectures
Research output: Research - peer-review › Journal article – Annual report year: 2016

Defining Interactions and Interfaces in Engineering Design

Establishing Reusable Requirements Derived from Laws and Regulations for Medical Device Development
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017

Modelling production system architectures in the early phases of product development
Research output: Research - peer-review › Journal article – Annual report year: 2016

Prototypes in engineering design: Definitions and strategies
Research output: Research - peer-review › Article in proceedings – Annual report year: 2016

Towards a framework for modular service design synthesis
Research output: Research - peer-review › Journal article – Annual report year: 2016

Coherent Architecture Development as a Basis for Technology Development
Research output: Research › Ph.D. thesis – Annual report year: 2015

Enabling Mass Customization In Engineer-To-Order Industries: A multiple case study analysis on concepts, methods and tools
Research output: Research › Ph.D. thesis – Annual report year: 2015
Enabling Reuse of Documentation in New Medical Device Development: A Systematic Architecting Approach
Research output: Research - peer-review › Article in proceedings – Annual report year: 2015

Interface definitions in literature: A reality check
Research output: Research - peer-review › Journal article – Annual report year: 2015

Modelling architectures in multi-product oriented technology development

PLM support to architecture based development: Contribution to computer-supported architecture modelling
Research output: Research › Ph.D. thesis – Annual report year: 2015

PLM system support for modular product development
Research output: Research - peer-review › Journal article – Annual report year: 2014

Tasks and challenges in prototype development with novel technology - an empirical study
Research output: Research - peer-review › Article in proceedings – Annual report year: 2015

A proposal for a classification of product-related dependencies in development of mechatronic products
Research output: Research - peer-review › Journal article – Annual report year: 2013

Research output: Research › Ph.D. thesis – Annual report year: 2015

Assessment and Development of Engineering Design Processes
Research output: Research › Ph.D. thesis – Annual report year: 2014

End-to-end requirements management for multiprojects in the construction industry
Research output: Research › Ph.D. thesis – Annual report year: 2014

Front-end conceptual platform modeling
Research output: Research - peer-review › Journal article – Annual report year: 2014

Identified adjustability dimensions when generating a product specific requirements specification by requirements reuse
Research output: Research - peer-review › Journal article – Annual report year: 2014

Interface diagram: Design tool for supporting the development of modularity in complex product systems
Research output: Research - peer-review › Journal article – Annual report year: 2014

Mapping requirements to a product architecture supported by a PLM system
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

Proactive identification of scalable program architectures: How to achieve a quantum-leap in time-to-market
Research output: Research - peer-review › Journal article – Annual report year: 2014

The Use of Modelling Methods for Product Configuration in Industrial Applications
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

Visual modelling of pilot production to support decision making in production development
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014
Challenges in Designing Mechatronic Systems
Research output: Research - peer-review › Journal article – Annual report year: 2012

Conceptualizing the use of system products and system deliveries in the building industry
Research output: Research - peer-review › Book chapter – Annual report year: 2013

EAP high-level product architecture
Research output: Research - peer-review › Conference article – Annual report year: 2013

Identification of a reusable requirements structure for embedded products in a dynamic market environment
Research output: Research - peer-review › Journal article – Annual report year: 2013

Observed benefits from product configuration systems
Research output: Research - peer-review › Journal article – Annual report year: 2013

PLM Support for Development of Modular Product Families
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

Product platform considerations on a project that develops sustainable low-cost housing for townships
Research output: Research - peer-review › Paper – Annual report year: 2013

Reducing variety in product solution spaces of engineer-to-order companies: The case of Novenco A/S
Research output: Research - peer-review › Journal article – Annual report year: 2014

Calculation of Complexity Costs – An Approach for Rationalizing a Product Program
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Definition and evaluation of product configurator development strategies
Research output: Research - peer-review › Journal article – Annual report year: 2012

Modelling and using product architectures in mechatronic product development
Research output: Research › Paper – Annual report year: 2012

On the Market Aspect of Product Program Design: Towards a Definition of an Architecture of the Market
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Product Platform Screening at LEGO
Research output: Research - peer-review › Journal article – Annual report year: 2013

Radikal Forenkling via Design
Research output: Communication › Book – Annual report year: 2012

Towards a Classification of Architecture Initiatives: Outlining the External Factors
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Visual product architecture modelling for structuring data in a PLM system
Research output: Research - peer-review › Conference article – Annual report year: 2012

Product Platform Performance: Achieving internal effects
Research output: Research › Ph.D. thesis – Annual report year: 2011
A mechatronic case study highlighting the need for re-thinking the design approach
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

Improving decision making in the early phases of configuration projects
Research output: Research - peer-review › Journal article – Annual report year: 2011

Innovation and Entrepreneurship in the Automotive Business: ICED11 Automotive Keynote
Research output: Research › Sound/Visual production (digital) – Annual report year: 2011

Mechatronic Design - Still a Considerable Challenge
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

Proactive Modeling of Market, Product and Production Architectures
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

The impact of product configurators on lead times in engineering-oriented companies
Research output: Research - peer-review › Journal article – Annual report year: 2011

A layout technique for class diagrams to be used in product configuration projects
Research output: Research - peer-review › Journal article – Annual report year: 2010

Assessment of Benefits from Product Configuration Systems
Research output: Research - peer-review › Article in proceedings – Annual report year: 2010

Making Product Customization Profitable
Research output: Research - peer-review › Journal article – Annual report year: 2009

Modelling Product Families for Product Configuration Systems with Product Variant Master
Research output: Research - peer-review › Article in proceedings – Annual report year: 2010

Produktsanering i praksis: Et casestudie hos Novenco A/S
Research output: Research - peer-review › Book chapter – Annual report year: 2010

A classification of strategies for the development of product configurators
Research output: Research - peer-review › Article in proceedings – Annual report year: 2009

Implementation of conceptual product models into configurators: From months to minutes
Research output: Research - peer-review › Article in proceedings – Annual report year: 2009

Platform Performance and Challenges - using Platforms in Lego Company
Research output: Research - peer-review › Journal article – Annual report year: 2009

Managing the New Product Portfolio.: Towards an end-to-end approach
Research output: Research › Ph.D. thesis – Annual report year: 2008

Implementing a product platform in 35 man-days: The visual thinking approach
Research output: Research - peer-review › Journal article – Annual report year: 2008

Improving decision making in the early phases of configuration projects
Research output: Research - peer-review › Journal article – Annual report year: 2008
Modelling and visualising modular product architectures for mass customisation
Research output: Research - peer-review › Journal article – Annual report year: 2008

Product Customization
Research output: Research - peer-review › Book – Annual report year: 2009

A multi-perspective approach for the design of product configuration systems
Research output: Research - peer-review › Journal article – Annual report year: 2007

Improving decision making in the early phases of configuration projects
Research output: Research - peer-review › Journal article – Annual report year: 2007

Produktkonfigurering: Kundetilpasning af produkter
Research output: Research - peer-review › Book – Annual report year: 2007

Review af Dansk Bygge Klassifikation - DBK2006
Research output: Research › Report – Annual report year: 2007

Developing product families based on architectures: Contribution to a theory of product families
Research output: Research › Ph.D. thesis – Annual report year: 2006

Implementing Product Platforms: A Case Study
Research output: Research - peer-review › Article in proceedings – Annual report year: 2006

Kundetilpassede systemprodukter: - en vej til ny konkurrencekraft i Byggematerialeindustrien
Research output: Research - peer-review › Book – Annual report year: 2006

Produktkonfigurering: Effektiv konfigurering af kundetilpassede produkter
Research output: Research - peer-review › Book – Annual report year: 2006

Identification of platform levels
Research output: Research - peer-review › Article in proceedings – Annual report year: 2005

Method for alignment of product and production concepts
Research output: Research - peer-review › Article in proceedings – Annual report year: 2005

Method for creating and visualizing product architectures
Research output: Research - peer-review › Article in proceedings – Annual report year: 2005

Multi-Produkt-Entwicklung - praxisorientierte Werkzeuge und praktische Erfahrungen
Research output: Research - peer-review › Book chapter – Annual report year: 2005

Preparing for a Product Platform: Product Family Hierarchy Procedure
Research output: Research - peer-review › Article in proceedings – Annual report year: 2005

A Proposal for an eventbased Approach to portfolio management for new products
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Recognizing the needs for improving the portfolio management for new products in the industry
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004
Produktmodellering - procesanalyse, produktanalyse, objektorienteret analyse - Center for Produktmodellering
Research output: Education › Book – Annual report year: 2002

Case study on the impact of modularization in Danish industry
Research output: Research - peer-review › Article in proceedings – Annual report year: 2001

Conceptual modelling of product families in configuration projects
Research output: Research - peer-review › Article in proceedings – Annual report year: 2001

Managing modularization
Research output: Research - peer-review › Article in proceedings – Annual report year: 2001

On the way towards definition of product architecture
Research output: Research - peer-review › Article in proceedings – Annual report year: 2001

The Need for Proper Understanding of Modularisation
Research output: Research - peer-review › Book – Annual report year: 2000

Contribution to a Theory of Detailed Design
Research output: Research - peer-review › Book chapter – Annual report year: 1999

Critical Enthusiasm: Contribution to Design Science
Research output: Research - peer-review › Book – Annual report year: 1999

Function Concepts for Machine Parts: Contribution to a Theory of Detailed Design
Research output: Research - peer-review › Article in proceedings – Annual report year: 1999

Structuring as a Basis for Product Modelling
Research output: Research - peer-review › Book chapter – Annual report year: 1999

A design language for synthesis and systematization
Research output: Research - peer-review › Article in proceedings – Annual report year: 1998

Design Preparation - by means of a Design Handbook
Research output: Research - peer-review › Article in proceedings – Annual report year: 1998

Produktstrukturer og produktmodellering
Research output: Research - peer-review › Book chapter – Annual report year: 1998

Basic thinking patterns and working methods for multiple DFX
Research output: Research - peer-review › Article in proceedings – Annual report year: 1997

Design Characteristics as Basis for Design Languages
Research output: Research - peer-review › Article in proceedings – Annual report year: 1997

Getting from Organ- to Part- Structure
Research output: Research - peer-review › Book chapter – Annual report year: 1997

Improving conditions for reuse of design solutions - by means of a context based solution library
Research output: Research - peer-review › Article in proceedings – Annual report year: 1997
Konstruktionsforberedelse hos Kværner
Research output: Research › Article in proceedings – Annual report year: 1997

On the identification of Product Structure Laws
Research output: Research › peer-review › Article in proceedings – Annual report year: 1997

The Nature of Design Features
Research output: Research › peer-review › Article in proceedings – Annual report year: 1997

Designing in an Interplay with a Product Model - Explained by Design Units
Research output: Research › peer-review › Book chapter – Annual report year: 1996

On the Identification of design Feature Characteristics
Research output: Research › peer-review › Article in proceedings – Annual report year: 1996

Product Variant Master as a Means to Handle Variant Design
Research output: Research › peer-review › Article in proceedings – Annual report year: 1996

Produktudvikling i et produktionsperspektiv
Research output: Research › Article in proceedings – Annual report year: 1996

The structuring of products and product programmes
Research output: Research › Article in proceedings – Annual report year: 1996

Projects:

Planning Project Configuration System Projects
Project: PhD

Maintenance Strategy at Rockwool
Project: PhD

Design by Prototyping - From Idea to Product Realisation
Project: PhD

Systematic Maintenance Improvement - A Data Driven Approach
Project: PhD

Optimization of maintenance shutdown of large-scale equipment
Project: PhD

Application of Product Configuration Systems in Engineering Companies
Project: Research

Quantitative Modular Maintenance Principles
Project: PhD

Data Driven Analysis of Plant Operation
Project: PhD
Developing Product Architectures in Collaboration with Key-Customers  
Project: PhD

Complexity Management at DSV A/S  
Project: PhD

Developing Modular Product and Process Architectures in Engineer to Order (ETO) Companies  
Project: PhD

Management of product and production data  
Project: PhD

End-to-end configuration  
Project: PhD

Diagnose på og specifikation af produktprogram og produktudviklingsprocessen  
Project: PhD

Strategi for produktinnovation - et værktøj til generering og udvælgelse af produktinnovationsprojekter  
Project: PhD

Genetisk produktmodellering og synteseværktøjer til konstruktionsstøttesystem med aluminiumstekn. som anvendt område  
Project: PhD

Træfssikkerhed i produktudvikling gennem brugercentreret design: En undersøgelse af teori og praksis  
Project: PhD

Håndtering af interfaces i højkomplekse og multidisciplinære produkter  
Project: PhD

Application of Architectures in SME's  
Project: PhD

Early application of tolerance design  
Project: PhD

Analysis and modelling of Engineering Systems using Data Science and Complex Networks  
Project: PhD

Investigating New Design Paradigms in Agile Product Development and Rapid Prototyping  
Project: PhD

Application of Product Configuration Systems in Engineering Companies  
Project: PhD

Reducing time-to-market by means of modular platforms  
Project: PhD

Conceptual Modelling for Product Configuration Systems  
Project: PhD
Business Intelligence i Engineeringvirksomheder
Project: PhD

Requirement management with multiple product platforms
Project: PhD

Indlejret produktkonfiguration hos Grundfos Strukturering af produktviden
Project: PhD

Indlejret konfigurering: Modellering af produktfamilier og versionsstyring
Project: PhD

Systemintegration i teknologiudviklingsprojekter
Project: PhD

Requirements management with multiple product platforms
Project: PhD

Udvikling af teknologisk produktarkitektur fra specification til produktion
Project: PhD

Development of modeling techniques for project management in product development
Project: PhD

Parallelsyntese af marked, produkt og produktion/supply chain
Project: PhD

Platforme i produktion
Project: PhD

Referencearkitektur for produktplatforme og produktionsprocesser
Project: PhD

Modeling of product- and process architecture
Project: PhD

Quantitative Architecture Synthesis
Project: PhD

Syntese af produktarkitekturer
Project: PhD

Complexity Management
Project: PhD

Udvikling af mekatroniske platforme
Project: PhD

Design for micro manufacturing
Project: PhD
Koordineret udvikling af produktarkitektur og forretningsprocesser
Project: PhD

Metodisk konstruktion af produkter
Project: PhD

Connovate - optimized building system using High Performance Concrete
Project: Research

Systemleverancer i byggeriet: - et forskningsnetværk
Project: Research

Design for Manufacture
Project: Research

Integrated Production System
Project: Research

Development of a designer's workbench
Project: Research

Design Languages
Project: Research

Product Variant Master Design
Project: Research

Development and integration of tools for a Designer's Workbench
Project: Research

Press clippings:

Automatic design system saves millions
Press/Media: Press / Media