

PUBLICATIONS 2
MSc Theses

MSc theses / Diploma theses

2018

1. CORDERO PORRAS, Boris: *System Identification of Simplified Beam and Lumped Parameter Vehicle Models for the IIHS Small Overlap Test*, MSc Thesis, Technische Universität München, Munich, Germany, Mar 2018.
2. KRISCHER, Lukas: *Gradient Approximation for Crash Topology Optimization*, MSc Thesis, Technische Universität München, Munich, Germany, Jan 2018.
3. KÜÇÜK, İsmail: *Simulation of the Forming Process of Non-Crimp Fabrics*, MSc Thesis, Technische Universität München, Munich, Germany, Jan 2018.
4. MULARD, Aude: *Crash Topology Optimisation of Additive Manufacturing Structures*, MSc Thesis, Technische Universität München in collaboration with École des Ponts ParisTech, Munich, Germany, Apr 2018.
5. SCHELHORN, Lidia: *Free-shape Optimization of a Liquid Rocket Engine Injection Head*, MSc Thesis, Technische Universität München, Munich, Germany, Jan 2018.
6. VÁSQUEZ LEYVA, Ricardo: *Optimization Design Applied to Robotic Neck Structures*, MSc Thesis, Technische Universität München, Munich, Germany, Apr 2018.

2017

7. CEGLIA, Daniele: *Offline Methods for Nonlinear Model Order Reduction*, MSc Thesis, Technische Universität München in collaboration with the Politecnico di Torino, Munich, Germany, Nov 2017.
8. FISCHER, Silvana: *Bestimmung von Kraft-Weg-Kennlinien als funktionale Eigenschaft von Komponenten im Fahrzeugcrash*, MSc Thesis, Technische Universität München, Munich, Germany, Sep 2017.
9. GONZÁLEZ GARCÍA, María: *Influence of Age-Related Material Changes of the Bony Thorax on Injury Mechanics in Multi-Scale Impact Configurations*, MSc Thesis, Technische Universität München in collaboration with the Universidad de Oviedo and Ludwig-Maximilians-Universität München, Munich, Germany, Sep 2017.
10. HEFELE, Rafael Georg: *A Multi-fidelity Approach Using Physical and Mathematical Surrogates for Crash Optimization*, MSc Thesis, Technische Universität München, Munich, Germany, Nov 2017.

11. RAPONI, Elena: *Development of Surrogate Modeling Techniques for Level Set Topology Optimization*, MSc Thesis, Technische Universität München in collaboration with the University of Camerino, Munich, Germany, Sep 2017.
12. VAN DER LOOS, Philipp: *Advanced Post-processing of the FlexPLI*, MSc Thesis, Technische Universität München, Munich, Germany, Nov 2017.
13. WU, Daxin: *A Method for Crashworthiness Design of Vehicle Rear Structures Using Equivalent Beam Modeling*, MSc Thesis, Technische Universität München, Munich, Germany, Aug 2017.
14. ZHANG, Jiawei: *Robust Structural Design for Rear Impact Events Using the Solution Space Method*, MSc Thesis, Technische Universität München, Munich, Germany, Mar 2017.
15. ZHOU, Chenzhang: *Local Minima Removal and Multi-constraint Optimisation Using Hybrid Cellular Automata (HCA) in Crashworthiness Design*, MSc Thesis, Technische Universität München in collaboration with the École Polytechnique Palaiseau, Munich, Germany, Jun 2017.

2016

16. BEHRENDT, Felix Richard Martin: *Prediction and Control of Deformation Behavior in Vehicle Structures for Crash Design*, MSc Thesis, Technische Universität München, Munich, Germany, Apr 2016.
17. BOURSIER NIUTTA, Carlo: *Surrogate Modeling of Discontinuous Structural Responses for the Optimization of Crashworthiness*, MSc Thesis, Technische Universität München in collaboration with the Politecnico di Torino, Munich, Germany, Oct 2016.
18. CHIAPEDI, Stefano: *Comparison of Mesh- and Geometry-based Shape Parametrizations for Optimal Trigger Design of Crash-absorbing Structures*, MSc Thesis, Technische Universität München in collaboration with the Politecnico di Torino, Munich, Germany, Oct 2016.
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2015

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2012

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