Known master theses using LS-DYNA 2019 and spring 2020

Sweden

Title	Author	Second author
Improving comfort simulations of sleeping mattresses for IKEA	Joel Elinder	
Virtual testing of self-piercing rivet connections	Daniel Andersson	Fredrik Saliba
Polymer Materials in Heavy Goods Vehicle Crash Simulation	Sandra Benzler	
A study of wear and load behaviour on bucket teeth for heavy-duty cable shovels	Jamal Choudhry	
Modeling and Evaluation of a Finite Element Cervical Spinal Cord for Injury Assessment	Nicole Valle Olivera	
Development of a new test methodology for car-to-truck crash	Matas Buzys	Sara Nilsson
CAE modelling of cast aluminium in automotive structures	Sreehari Veditherakal Shreedhara	Subrat Raman Singh
Simulating pull-out fracture in particleboard	Tapiwanashe Phiri	Niklas Björkman
FE Modeling of Cushion 3D Motion for Sheet Metal Forming Simulation	Jagdish Jadhav	
Evaluation of Head and Neck Injuries during Misuses of Child Restraint Systems	Steinunn Kristín Jóhannsdóttir	
Evaluation of Test Methods for Football Helmets Using Finite Element Simulations	Aðalheiður Gunnarsdóttir	
Improvements and Validation of THUMS Upper Extremity	Kristín Sverrisdóttir	
Investigating In-plane Shear Behaviour of Uncured Unidirectional Prepreg Tapes	Ming Kai Chea	
Increasing Simulation Performance: Experimental tests of bottlenecks and scalability of LS-DYNA on Tetra Pak HPC-clusters	Tommie Eriksson	Christoffer Damfelt
Vehicle crash reconstructions using FE human body model to improve injury predictions	PALOMA MUÑIZ FERNÁNDEZ	ILIJA TODOROVIC
Improvement of Human Body Model Rib Fracture Risk Prediction	Amanda Blennow	
A Stochastic Approach for Parameter Relevance Estimation in Vehicle Interior Simulations of Frontal Impacts	WILLIAM HÜBINETTE	
Sheet Metal Forming Simulations with Elastic Dies: Emphasis on Computational Cost	Allesson, Sara	
Extraction of tool reaction forces using LS-DYNA and its use in Autoform sheet metal forming simulation	Zachén, Esbjörn	
FE based method for simulation of rock-loading on a truck	Zeaiter, Ali	Kohestani, Tamim
Feasibility of Probabilistic Submarining Prediction in Finite Element Occupant Model Simulations	Renner, Victoria	Sharma, Sumit
Reconstruction of Fall Injuries for Children of Different Ages	Björgvinsdottír, Linda	
Topology optimization of a car body component	Ekström Andersson, Albin	
Numerical Methods for Simulating the Metal Shearing Process	Svanberg, Andreas	

Norway

Buckling of Non-spherical Moss-LNG tank	Sanne, Andreas
Fluid Structure Interaction Analysis of Abnormal Wave Slamming Events	Louise Ankerstjerne Rolland
Analysis of an Offshore Jacket subjected to Supply Vessel Impacts	Erlend Flatøy
Damage Assessment of Sevan 1000 FPSO Subjected to Impacts from Shuttle Tankers	Hagen, Stian Arneborg
Analysis and Design of Stiffened Columns in Offshore Floating Platforms Subjected to Supply Vessel Impacts	Terje Skogan Bøe
Analysis of accidental iceberg impacts with large passenger vessels and FPSOs	Gowtham Radhakrishnan

Denmark

Design of Blast Resistant Armor System Utilizing High Density Polyethylene Laust Rolf Christensen	Øystein Aune
---	--------------

Finland

Nonlinear finite element modelling of a simply supported beam at ambient temperature and under fire	Chaulagain, Amrit
Effect of specimen geometry and friction in the high strain rate compression tests	Pun, Lalit

_
_

2019	NTNU
2018	NTNU
2018	NTNU/Aalt

2019 Aalborg

2020 Hämeen 2019 Tampere