Jacob Wittrup Schmidt - DTU Orbit (01/10/2018)

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Publications:

High Magnitude Loading of Concrete Bridges
Publication: Research - peer-review › Book chapter – Annual report year: 2018

Strengthening of RC beams using bottom and side NSM reinforcement
Publication: Research - peer-review › Journal article – Annual report year: 2018

Vejdirektoratet gennemfører bæreevneforsøg på broer
Publication: Communication › Journal article – Annual report year: 2018

Assessment of RC walls with cut-out openings strengthened by FRP composites using a rigid-plastic approach
Publication: Research - peer-review › Journal article – Annual report year: 2017

Electrochemical upgrading of different ashes for use in production of bricks
Publication: Research › Ph.D. thesis – Annual report year: 2017

Full-scale load tests of Pearl-Chain arches
Publication: Research - peer-review › Journal article – Annual report year: 2017

Hybrid Simulation of Composite Structures
Publication: Research › Ph.D. thesis – Annual report year: 2017

Project families: A new concept for student thesis activities
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Structural response of full-scale concrete bridges subjected to high load magnitudes
Publication: Research - peer-review › Paper – Annual report year: 2017

A reinforcement system and a method of reinforcing a structure with a tendon
Publication: Research › Patent – Annual report year: 2016

CFRP strengthening of RC beams using a ductile anchorage system
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Construction and Design of Post-Tensioned Pearl-Chain Bridges using SL-Technology
Publication: Research › Ph.D. thesis – Annual report year: 2016
Recycled fishing nets as reinforcement of existing concrete structures
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Cost optimization of load carrying thin-walled precast high performance concrete sandwich panels
Publication: Research - peer-review › Journal article – Annual report year: 2015

Experimental investigations of sandwich panels using high performance concrete thin plates exposed to fire
Publication: Research - peer-review › Journal article – Annual report year: 2015

Experimental Studies on the Fire Behaviour of High Performance Concrete Thin Plates
Publication: Research - peer-review › Journal article – Annual report year: 2015

Influence of Basalt FRP Mesh Reinforcement on High-Performance Concrete Thin Plates at High Temperatures
Publication: Research - peer-review › Journal article – Annual report year: 2015

Precast Pearl-Chain concrete arch bridges
Publication: Research - peer-review › Journal article – Annual report year: 2015

Quasi-Static Single-Component Hybrid Simulation of a Composite Structure with Multi-Axis Control
Publication: Research - peer-review › Journal article – Annual report year: 2015

Sandwich panels with high performance concrete thin plates at elevated temperatures: numerical studies
Publication: Research - peer-review › Journal article – Annual report year: 2015

A comparative study on electrodialytically treated bio-ash and MSWI APC-residue for use in bricks
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

A comparative study on electrodialytic treated bio-ash and MSWI-APC residue for use in bricks
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Concrete Hinges
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Electrodialytic removal of heavy metals from fly ash from co-combustion of wood and straw – influence from prewash
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Novel shear capacity testing of ASR damaged full scale concrete bridge
Publication: Research - peer-review › Journal article – Annual report year: 2014

Optimization process for thin-walled high performance concrete sandwich panels
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Strain and displacement controls by fibre bragg grating and digital image correlation
Publication: Research - peer-review › Journal article – Annual report year: 2014

Super-light and pearl-chain technology for support of ancient structures
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Wedge Splitting Test and Inverse Analysis on Fracture Behaviour of Fiber Reinforced and Regular High Performance Concretes
ZeroWaste BYG: Redesigning construction materials towards zero waste society
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

A model for spalling of HPC thin plates exposed to fire
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Assessment risk of fracture in thin-walled fiber reinforced and regular High Performance Concretes sandwich elements
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Finite element simulation and testing of ISW CFRP anchorage
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Fire performance of basalt FRP mesh reinforced HPC thin plates
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Hybrid Testing of Composite Structures with Single-Axis Control
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Kulfiber giver gamle broer nyt liv
Publication: Communication › Journal article – Annual report year: 2013

Life cycle strain monitoring in glass fibre reinforced polymer laminates using embedded fibre Bragg grating sensors from manufacturing to failure
Publication: Research - peer-review › Journal article – Annual report year: 2013

Optimization process for thin-walled High Performance Concrete sandwich panels
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Prøvebelastning af AKR-skadet vejbro
Publication: Communication › Journal article – Annual report year: 2013

Static strain and deformation controlled testing of composite beams
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Structural performance of new thin-walled concrete sandwich panel system reinforced with bfrp shear connectors
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Transversely Compressed- and Restrained Shear Joints
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Wedge Splitting Test on Fracture Behaviour of Fiber Reinforced and Regular High Performance Concretes
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

External post-tensioning of cfrp tendons using integrated sleeve-wedge anchorage
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

In situ measurement using FBGs of process-induced strains during curing of thick glass/epoxy laminate plate: experimental results and numerical modelling
Publication: Research - peer-review › Journal article – Annual report year: 2012
Mechanical anchorage of FRP tendons – A literature review
Publication: Research - peer-review › Journal article – Annual report year: 2012

Prediction of internal strains during curing, post-curing and demoulding of thick glass/epoxy composite - Analysis of different constitutive models
Publication: Research › Conference abstract for conference – Annual report year: 2012

Reinforced concrete T-beams externally prestressed with unbonded carbon fiber-reinforced polymer tendons
Publication: Research - peer-review › Journal article – Annual report year: 2012

Transversely Compressed Bonded Joints
Publication: Research - peer-review › Journal article – Annual report year: 2012

External Strengthening of Building Structures with Prestressed CFRP
Publication: Research › Ph.D. thesis – Annual report year: 2011

Numerical Simulation and Experimental Validation of an Integrated Sleeve-Wedge Anchorage for CFRP Rods
Publication: Research - peer-review › Journal article – Annual report year: 2011

Thick-Walled Cylinder Theory Applied on a Conical Wedge Anchorage
Publication: Research › Journal article – Annual report year: 2011

Analysis of Balanced Double Lap Joints with a Bi-Linear Softening Adhesive
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Development of Mechanical Anchor for CFRP Tendons Using Integrated Sleeve
Publication: Research - peer-review › Journal article – Annual report year: 2010

RC T-Beams Externally Prestressed with Unbonded CFRP
Publication: Research - peer-review › Journal article – Annual report year: 2011

Enhanced FBG sensor-based system performance assessment for monitoring strain along a prestressed CFRP rod in structural monitoring
Publication: Research - peer-review › Journal article – Annual report year: 2009

EXTERNAL PRESTRESSING OF RC T-BEAMS WITH CFRP TENDONS
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Failure modes of prestressed CFRP rods in a wedge anchored set-up
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Strain Measurement Using Embedded Fiber Bragg Grating Sensors Inside an Anchored Carbon Fiber Polymer Reinforcement Prestressing Rod for Structural Monitoring
Publication: Research - peer-review › Journal article – Annual report year: 2009

Strengthening of old metallic structures in fatigue with prestressed and non-prestressed CFRP laminates
Publication: Research - peer-review › Journal article – Annual report year: 2009

FRP tendon anchorage in post-tensioned concrete structures
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008
Strengthening of old metallic structures in fatigue with CFRP materials
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Projects:

Decision support for the efficient reclassification of bridges
Project: PhD

Monitoring thresholds- and output assessment related to in-situ full-scale concrete bridge testing
Project: PhD

Modelling of the load carrying capacity of concrete bridges in conjunction with in-situ monitoring
Project: PhD

Bridge Load Testing
Project

Circular Ocean
Project: PhD

Structural Health Monitoring Systems Design
Project: PhD

Construction of Pearl-Chain Bridges
Project: PhD

Electrochemical upgrading of different fly ashes for use in production of bricks and lightweight aggregates
Project: PhD

Hybrid testing for composite structures
Project: PhD

Hybrid Testing of Wind Turbine Blades
Project: PhD

Advanced Sandwich Elements for Sustainable Buildings - Integrated Structural and Materials Modelling
Project: PhD

Analysis and development of Advanced Sandwich Elements for Sustainable Buildings
Project: PhD

External Strengthening of Building Structures with Prestressed CFRP
Project: PhD

Prizes:

Annual DTU Award for developing Teaching and Learning
Prize: Prizes, scholarships, distinctions