Jesper Larsen - Research outputs - DTU Orbit (31/03/2019)

A matheuristic for the driver scheduling problem with staff cars
Research output: Research - peer-review › Journal article – Annual report year: 2019

A matheuristic for the driver scheduling problem with staff cars
Govinda Raja Perumal, S. S., Larsen, J., Lusby, R. M., Riis, M. & Sørensen, K. 2018
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2018

A matheuristic for the driver scheduling problem with staff cars
Research output: Research › Report – Annual report year: 2018

Assignment of Pregnant Women to Midwives
Research output: Research › Report – Annual report year: 2018

A Survey on Robustness in Railway Planning
Research output: Research - peer-review › Journal article – Annual report year: 2018

Considering passenger and operator inconvenience in the scheduling of large railway projects
Research output: Research › Report – Annual report year: 2018

Equidistant representations: connecting coverage and uniformity in biobjective optimization
Kidd, M. P., Lusby, R. M. & Larsen, J. 2018
Research output: Research - peer-review › Paper – Annual report year: 2018

Passenger- and operator-oriented scheduling of large railway projects
Kidd, M. P., Lusby, R. M. & Larsen, J. 2018
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2018

Planning and scheduling operating rooms for elective and emergency surgeries with uncertain duration
Research output: Research - peer-review › Journal article – Annual report year: 2018

Rolling Stock Scheduling with Maintenance Requirements at the Chinese High Speed Railway
Research output: Research - peer-review › Sound/Visual production (digital) – Annual report year: 2018

Tramp ship routing and scheduling with voyage separation requirements
Larsen, J., Lusby, R. M. & Vilhelmsen, C. 2018
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2018

A Branch-and-Price algorithm for railway rolling stock rescheduling
Research output: Research - peer-review › Journal article – Annual report year: 2017

Tramp ship routing and scheduling with voyage separation requirements
Research output: Research - peer-review › Journal article – Annual report year: 2017

Tramp ship routing and scheduling with voyage separation requirements
Larsen, J., Lusby, R. M. & Vilhelmsen, C. 2017
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2018

A Benders Decomposition-Based Matheuristic for the Cardinality Constrained Shift Design Problem
Research output: Research - peer-review › Journal article – Annual report year: 2016

A heuristic and hybrid method for the tank allocation problem in maritime bulk shipping
Research output: Research - peer-review › Journal article – Annual report year: 2016

Airport operations management
Research output: Research - peer-review › Editorial – Annual report year: 2016

An adaptive large neighborhood search procedure applied to the dynamic patient admission scheduling problem
Lusby, R. M., Schwierz, M., Range, T. M. & Larsen, J. 2016 In : Artificial Intelligence in Medicine. 74, p. 21-31
Research output: Research - peer-review › Journal article – Annual report year: 2016

An applied optimization based method for line planning to minimize travel time
Research output: Research › Report – Annual report year: 2016

A new approach to the Container Positioning Problem
Research output: Research - peer-review › Journal article – Annual report year: 2015

Finding equidistant nondominated points for biobjective mixed integer programs
Research output: Research › Report – Annual report year: 2016

Joint overbooking and seat allocation for fare families
Research output: Research - peer-review › Report – Annual report year: 2016

Planning of Midwives
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017

A Benders decomposition-based Matheuristic for the Cardinality Constrained Shift Design Problem
Research output: Research › Report – Annual report year: 2015

Aircraft Stand Allocation with Associated Resource Scheduling
Research output: Research - peer-review › Report – Annual report year: 2015

A New Approach to the Container Positioning Problem
Research output: Research › Report – Annual report year: 2015
An integrated rolling stock planning model for the Copenhagen suburban passenger railway
23 p.
Research output: Research - peer-review › Journal article – Annual report year: 2016

Research output: Research › Report – Annual report year: 2015

An optimization based method for line planning to minimize travel time
Research output: Research - peer-review › Article in proceedings – Annual report year: 2015

Mitigation of airspace congestion impact on airline networks
Vaaben, B. V. & Larsen, J. 2015 In : Journal of Air Transport Management. 47, p. 54-65
Research output: Research - peer-review › Journal article – Annual report year: 2015

Simultaneously Recovering Rolling Stock Schedules and Depot Plans Under Disruption
Research output: Research - peer-review › Article in proceedings – Annual report year: 2015

Solving the selective multi-category parallel-servicing problem
Research output: Research - peer-review › Journal article – Annual report year: 2013

Tramp Ship Routing and Scheduling - Models, Methods and Opportunities
Research output: Research › Report – Annual report year: 2015

A Branch-and-Price Framework for Railway Rolling Stock Rescheduling During Disruptions
Research output: Research › Report – Annual report year: 2014

A column generation approach for solving the patient admission scheduling problem
Research output: Research - peer-review › Journal article – Annual report year: 2013

A Heuristic and Hybrid Method for the Tank Allocation Problem in Maritime Bulk Shipping
Vilhelmsen, C., Larsen, J. & Lusby, R. M. 2014
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2014

A Heuristic and Hybrid Method for the Tank Allocation Problem in Maritime Bulk Shipping
Research output: Research › Report – Annual report year: 2014

A Hybrid Column Generation approach for an Industrial Waste Collection Routing Problem
Research output: Research - peer-review › Journal article – Annual report year: 2014

Allocation of Ground Handling Resources at Copenhagen Airport
Room Allocation Optimisation at the Technical University of Denmark
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

Tramp ship routing and scheduling with integrated bunker optimization
Research output: Research - peer-review › Journal article – Annual report year: 2013

A Column Generation Approach for Solving the Patient Admission Scheduling Problem
Research output: Research › Report – Annual report year: 2013

A set packing inspired method for real-time junction train routing
Research output: Research - peer-review › Journal article – Annual report year: 2013

Routing and Scheduling in Tramp Shipping - Integrating Bunker Optimization
Research output: Research › Report – Annual report year: 2014

Solving the Selective Multi-Category Parallel-Servicing Problem
Range, T. M., Lusby, R. M. & Larsen, J. 2013 University of Southern Denmark, Department of Business and Economics. 27 p. (Discussion Papers on Business and Economics; No. 5/2013).
Research output: Research › Report – Annual report year: 2013

The Rolling Stock and Depot Recovery Problem
Research output: Research - peer-review › Paper – Annual report year: 2013

The Tank Allocation Problem in Bulk Shipping
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2013

A column generation-based heuristic for rostering with work patterns
Research output: Research - peer-review › Journal article – Annual report year: 2011

The Home Care Crew Scheduling Problem: Preference-based visit clustering and temporal dependencies
Research output: Research - peer-review › Conference article – Annual report year: 2012

Optimisation-Based Solution Methods for Set Partitioning Models
Research output: Research › Ph.D. thesis – Annual report year: 2011
A multilevel variable neighborhood search heuristic for a practical vehicle routing and driver scheduling problem
Research output: Research - peer-review › Journal article – Annual report year: 2011

An IP Framework for the Crew Pairing Problem Using Subsequence Generation
Research output: Research › Report – Annual report year: 2011

Improved exact method for the double TSP with multiple stacks
Lusby, R. M. & Larsen, J. 2011 In : Networks. 58, 4, p. 290-300
Research output: Research - peer-review › Journal article – Annual report year: 2011

Models for the discrete berth allocation problem: A computational comparison
Research output: Research - peer-review › Journal article – Annual report year: 2011

Railway Track Allocation: Models and Methods
Research output: Research - peer-review › Journal article – Annual report year: 2010

Routing trains through railway junctions: A new set-packing approach
Research output: Research - peer-review › Journal article – Annual report year: 2011

Subsequence Generation for the Airline Crew Pairing Problem
Research output: Research › Report – Annual report year: 2011

The vehicle routing problem with time windows and temporal dependencies
Dohn, A. H., Rasmussen, M. S. & Larsen, J. 2011 In : Networks. 58, 4, p. 273-289
Research output: Research - peer-review › Journal article – Annual report year: 2011

An Exact Method for the Double TSP with Multiple Stacks
Research output: Research - peer-review › Journal article – Annual report year: 2010

An Integrated Approach to the Ground Crew Rostering Problem with Work Patterns
Research output: Research › Report – Annual report year: 2010

Disruption Management - Foreword
Research output: Research - peer-review › Journal article – Annual report year: 2010

Disruption management in the airline industry-Concepts, models and methods
Research output: Research - peer-review › Journal article – Annual report year: 2010
Solving the Airline Crew Pairing Problem using Subsequence Generation
Research output: Research - peer-review › Article in proceedings – Annual report year: 2010

Solving the Airline Crew Pairing Problem using Subsequence Generation
Rasmussen, M. S., Lusby, R. M., Ryan, D. M. & Larsen, J. 2010
Research output: Research › Conference abstract for conference – Annual report year: 2010

The dynamic multi-period vehicle routing problem
Research output: Research - peer-review › Journal article – Annual report year: 2010

The Home Care Crew Scheduling Problem: Preference-Based Visit Clustering and Temporal Dependencies
Research output: Research › Report – Annual report year: 2010

A multi-level variable neighborhood search heuristic for a practical vehicle routing and driver scheduling problem
Research output: Research › Report – Annual report year: 2009

An Exact Method for the Double TSP with Multiple Stacks
Research output: Research - peer-review › Report – Annual report year: 2009

A Set Packing Inspired Method for Real-Time Junction Train Routing
Research output: Research › Report – Annual report year: 2009

Models for the Discrete Berth Allocation Problem: A Computational Comparison
Research output: Research › Report – Annual report year: 2009

Railway Track Allocation: Models and Methods
Research output: Research - peer-review › Report – Annual report year: 2009

Rolling Stock Recovery Problem
Research output: Research › Report – Annual report year: 2009

Solving the Airline Crew Pairing Problem using Subsequence Generation
Research output: Research - peer-review › Article in proceedings – Annual report year: 2010
The Dynamic Multi-Period Vehicle Routing Problem
Research output: Research - peer-review › Report – Annual report year: 2009

The Vehicle Routing Problem with Time Windows and Temporal Dependencies
Research output: Research - peer-review › Report – Annual report year: 2009

The Vehicle Routing Problem with Time Windows and Temporal Dependencies
Rasmussen, M. S., Dohn, A. H. & Larsen, J. 2009
Research output: Research › Conference abstract for conference – Annual report year: 2009

Vehicle routing with cross-docking
Research output: Research - peer-review › Journal article – Annual report year: 2009

Green Wave Traffic Optimization - A Survey
Research output: Research › Report – Annual report year: 2008

The Home Care Crew Scheduling Problem
Research output: Research - peer-review › Article in proceedings – Annual report year: 2008

The Home Care Crew Scheduling Problem
Research output: Communication › Journal article – Annual report year: 2008

Airline Disruption Management - Perspectives, Experiences and Outlook
Research output: Research - peer-review › Journal article – Annual report year: 2007

A Hub Location Problem with Fully Interconnected Backbone and Access Networks
Research output: Research - peer-review › Journal article – Annual report year: 2007

Solving the Dial-a-Ride Problem using Genetic Algorithms
Research output: Research - peer-review › Journal article – Annual report year: 2007

Finding the best visualization of an ontology
Fabritius, C., Madsen, N., Clausen, J. & Larsen, J. 2006 In : Journal of the Operational Research Society. 57, 12, p. 1482-1490
Research output: Research - peer-review › Journal article – Annual report year: 2006

Forretningsviden + it + matematik = effektivitet
Research output: Communication › Journal article – Annual report year: 2006
Lagrangian duality applied to the vehicle routing problem with time windows
Research output: Research - peer-review › Journal article – Annual report year: 2006

Proceedings of the 1st Nordic Optimization Symposium - 10th Nordic MPS meeting, Copenhagen 2006
Research output: Research - peer-review › Report – Annual report year: 2006

Recent Advances in the Vehicle Routing Problem with Time Windows
Research output: Research - peer-review › Article in proceedings – Annual report year: 2006

Robustness and Recovery in Train Scheduling - a simulation study from DSB S-tog a/s
Research output: Research - peer-review › Report – Annual report year: 2006

Robustness and Recovery in Train Scheduling - a simulation study from DSB S-tog a/s
Research output: Research - peer-review › Conference article – Annual report year: 2006

Routing Trains Through Railway Junctions: A New Set Packing Approach
Lusby, R., Larsen, J., Ryan, D. & Ehrgot, M. 2006 Informatics and Mathematical Modelling, Technical University of Denmark, DTU.
Research output: Research - peer-review › Report – Annual report year: 2006

An exact algorithm for Aircraft Landing Problem
Wen, M., Larsen, J. & Clausen, J. 2005
Research output: Research - peer-review › Report – Annual report year: 2005

Disruption Management in the Airline Industry - Concepts, Models and Methods
Clausen, J., Larsen, A. & Larsen, J. 2005
Research output: Research - peer-review › Report – Annual report year: 2005

The Vehicle Routing Problem with Time Windows
Research output: Research - peer-review › Book chapter – Annual report year: 2005

Using Heuristics to Solve the Dedicated Aircraft Recovery Problem
Research output: Research - peer-review › Journal article – Annual report year: 2005

Airline Disruption Management - Perspectives, Experiences and Outlook
Research output: Research › Report – Annual report year: 2004

Finding the best visualization of an ontology
Fabritius, C. V., Madsen, N. L., Clausen, J. & Larsen, J. 2004
Research output: Research › Report – Annual report year: 2004

Refinements of the column generation process for the Vehicle Routing Problem with Time Windows
Solving the Dial-a-Ride Problem using Genetic algorithms

Research output: Research › Report – Annual report year: 2004

BORNHOLM '02 - Nordic Summer Course on Applied Optimization and Modelling

Research output: Research › Book – Annual report year: 2002

Disruption Management for an Airline - Rescheduling of aircraft

Research output: Research › Article in proceedings – Annual report year: 2002

Introduktion til Operationsanalyse
Larsen, J. 2002 In : ORbit : medlemsblad for Dansk Selskab for Operationsanalyse . 1, 1, p. 4-6

Research output: Communication › Journal article – Annual report year: 2002

Speeding up the solution process for the Vehicle Routing Problem with Time Windows using structural information
Larsen, J. 2002

Research output: Research › Report – Annual report year: 2002

Staff Scheduling within the Retail Business in Denmark

Research output: Research › Article in proceedings – Annual report year: 2002

Disruption management

Research output: Research › Journal article – Annual report year: 2001

Disruption management - operations research between planning and execution

Research output: Research › Report – Annual report year: 2001

Lagrangean Duality Applied on Vehicle Routing with Time Windows - Experimental Results

Research output: Research › Report – Annual report year: 2001

Using heuristics to solve the dedicated aircraft recovery problem

Research output: Research › Report – Annual report year: 2001

Using Parallel Computers to solve the Vehicle Routing Problem with Time Windows
Larsen, J., Clausen, J. & Madsen, O. B. G. 2000 Informatics and Mathematical Modelling, Technical University of Denmark, DTU.

Research output: Research - peer-review › Report – Annual report year: 2000

Parallelization of the Vehicle Routing Problem with Time Windows

Research output: Research › Ph.D. thesis – Annual report year: 1999

Experiments with the auction algorithm for the shortest path problem
Solutions to the Solomon Test-sets for the Vehicle Routing Problem with Time Windows
Research output: Research - peer-review › Report – Annual report year: 1999

Speeding up column generation in VRPTW
Research output: Research › Article in proceedings – Annual report year: 1999

A note on the practical performance of the auction algorithm for the shortest path
Research output: Research - peer-review › Journal article – Annual report year: 1998

A parallel approach to the stable marriage problem
Research output: Research - peer-review › Article in proceedings – Annual report year: 1997