Jesper Larsen - DTU Orbit (05/02/2018)

Jesper Larsen
Professor/head of division

Department of Management Engineering

Management Science

Transport DTU

Publications:

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

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

Considering passenger and operator inconvenience in the scheduling of large railway projects
Publication: Research - peer-review › Journal article – Annual report year: 2017

Integrated Rolling Stock Planning for Suburban Passenger Railways
Publication: Research › Ph.D. thesis – Annual report year: 2017

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

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

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

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

An adaptive large neighborhood search procedure applied to the dynamic patient admission scheduling problem
Publication: Research - peer-review › Journal article – Annual report year: 2016

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

A new approach to the Container Positioning Problem
Publication: Research - peer-review › Journal article – Annual report year: 2015
A Heuristic and Hybrid Method for the Tank Allocation Problem in Maritime Bulk Shipping
Publication: 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
Publication: Research › Report – Annual report year: 2014

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

Allocation of Ground Handling Resources at Copenhagen Airport
Publication: Research › Ph.D. thesis – Annual report year: 2014

Room Allocation Optimisation at the Technical University of Denmark
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Tramp Ship Routing and Scheduling - Incorporating Additional Complexities
Publication: Research › Ph.D. thesis – Annual report year: 2015

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

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

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

Routing and Scheduling in Tramp Shipping - Integrating Bunker Optimization
Publication: Research › Conference abstract for conference – Annual report year: 2013

Publication: Research › Report – Annual report year: 2014

Solving the Selective Multi-Category Parallel-Servicing Problem
Publication: Research › Report – Annual report year: 2013

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

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

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

Sustainable Disruption Management
Publication: Research › Ph.D. thesis – Annual report year: 2012

The Home Care Crew Scheduling Problem: Preference-based visit clustering and temporal dependencies
Publication: Research - peer-review › Conference article – Annual report year: 2012
Optimisation-Based Solution Methods for Set Partitioning Models
Publication: Research › Ph.D. thesis – Annual report year: 2011

A multilevel variable neighborhood search heuristic for a practical vehicle routing and driver scheduling problem
Publication: Research - peer-review › Journal article – Annual report year: 2011

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

Improved exact method for the double TSP with multiple stacks
Publication: Research - peer-review › Journal article – Annual report year: 2011

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

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

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

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

The vehicle routing problem with time windows and temporal dependencies
Publication: Research - peer-review › Journal article – Annual report year: 2011

Rostering and Task Scheduling: Applications in Manpower Planning
Publication: Research › Ph.D. thesis – Annual report year: 2010

Rich Vehicle Routing Problems and Applications
Publication: Research › Ph.D. thesis – Annual report year: 2010

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

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

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

Disruption management in the airline industry-Concepts, models and methods
Publication: Research - peer-review › Journal article – Annual report year: 2010

Solving the Airline Crew Pairing Problem using Subsequence Generation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Solving the Airline Crew Pairing Problem using Subsequence Generation
Publication: Research › Conference abstract for conference – Annual report year: 2010
The dynamic multi-period vehicle routing problem
Publication: Research - peer-review › Journal article – Annual report year: 2010

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

Agent Based Individual Traffic Guidance
Publication: Research › Ph.D. thesis – Annual report year: 2009

Decision Support for the Rolling Stock Dispatcher
Publication: Research › Ph.D. thesis – Annual report year: 2009

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

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

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

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

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

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

Solving the Airline Crew Pairing Problem using Subsequence Generation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

The Dynamic Multi-Period Vehicle Routing Problem
Publication: Research - peer-review › Report – Annual report year: 2009

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

The Vehicle Routing Problem with Time Windows and Temporal Dependencies
Publication: Research › Conference abstract for conference – Annual report year: 2009

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

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

The Home Care Crew Scheduling Problem
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008
Airline Disruption Management - Perspectives, Experiences and Outlook
Publication: Research › Report – Annual report year: 2004

Finding the best visualization of an ontology
Publication: Research › Report – Annual report year: 2004

Refinements of the column generation process for the Vehicle Routing Problem with Time Windows
Publication: Research - peer-review › Journal article – Annual report year: 2004

Solving the Dial-a-Ride Problem using Genetic algorithms
Publication: Research › Report – Annual report year: 2004

BORNHOLM '02 - Nordic Summer Course on Applied Optimization and Modelling
Publication: Research › Book – Annual report year: 2002

Disruption Management for an Airline - Rescheduling of aircraft
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

Introduktion til Operationsanalyse
Publication: Communication › Journal article – Annual report year: 2002

Speeding up the solution process for the Vehicle Routing Problem with Time Windows using structural information
Publication: Research › Report – Annual report year: 2002

Staff Scheduling within the Retail Business in Denmark
Publication: Research › Article in proceedings – Annual report year: 2002

Disruption management
Publication: Research › Journal article – Annual report year: 2001

Disruption management - operations research between planning and execution
Publication: Research › Report – Annual report year: 2001

Lagrangean Duality Applied on Vehicle Routing with Time Windows - Experimental Results
Publication: Research › Report – Annual report year: 2001

Using heuristics to solve the dedicated aircraft recovery problem
Publication: Research › Report – Annual report year: 2001

Using Parallel Computers to solve the Vehicle Routing Problem with Time Windows
Publication: Research - peer-review › Report – Annual report year: 2000

Parallelization of the Vehicle Routing Problem with Time Windows
Publication: Research › Ph.D. thesis – Annual report year: 1999

Experiments with the auction algorithm for the shortest path problem
Publication: Research - peer-review › Journal article – Annual report year: 1999

Solutions to the Solomon Test-sets for the Vehicle Routing Problem with Time Windows
Publication: Research - peer-review › Report – Annual report year: 1999
Speeding up column generation in VRPTW
Publication: Research › Article in proceedings – Annual report year: 1999

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

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

Projects:

Integrated optimization of vehicle and driver scheduling in public transport
Project: PhD

Managing Cyber Risk and Security in the Global Supply Chain
Project: PhD

Dynamic University Timetabling
Project: PhD

Robustness in Railway Planning
Project: PhD

Integrated Optimisation of Vehicle Ressources in Urban Rail Transport Systems
Project: PhD

Integreret disponering/genopretning af togdrift
Project: PhD

Development of a Generic Performance Measurement Model in an Emergency Department
Project: PhD

Optimal Aircraft Gate Assignment on a Strategic, Tactical and Operational Level
Project: PhD

Udvikling af optimeringsmodeller og løsningsmetoder til ruteplanlægning inden for trampfart
Project: PhD

Sustainable Disruption Management
Project: PhD

Solving Recovery Problems using Optimisations Methods
Project: PhD

Modeller og Metoder for optimeringsproblemer med kombineret resourceplanlægning og skedulering
Project: PhD

Models and Algorithms for the Vehicle Routing Problem with Cross Docking
Project: PhD
Beslutningsstøtte til genopretning ved uregelmæssigheder i togdrift
Project: PhD

Disruption Management i transportsektoren
Project: PhD

Ikke-differentiabel optimering i heltalsprogrammering
Project: PhD

PARELLELIZATION OF THE VEHICLE ROUTING PROBLEM WITH TIME WINDOWS
Project: PhD

Vehicle routing with time windows.
Project

Activities:

Tramp ship routing and scheduling with voyage separation requirements
Activity: Talks and presentations › Conference presentations

Planning of Midwives
Activity: Talks and presentations › Conference presentations

The 9th Triennial Symposium on Transportation Analysis (TRISTAN) (External organisation)
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

OptALI Industry Day
Activity: Attending an event › Participating in or organising a conference