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Research outputs:

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
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
Research output: Research - peer-review › Paper – Annual report year: 2018

Passenger- and operator-oriented scheduling of large railway projects
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
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
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
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
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
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
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
Research output: Research › Ph.D. thesis – Annual report year: 2014

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 › peer-review › Conference abstract for conference – Annual report year: 2013

Research output: Research › Report – Annual report year: 2014
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
Research output: Research › Conference abstract for conference – Annual report year: 2010

The dynamic multi-period vehicle routing problem
Research output: Research › 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 › 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 › 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 › Article in proceedings – Annual report year: 2010

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

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

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

Vehicle routing with cross-docking
Research output: Research › 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

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
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
Research output: Research - peer-review › Report – Annual report year: 2006

An exact algorithm for Aircraft Landing Problem
Research output: Research - peer-review › Report – Annual report year: 2005

Disruption Management in the Airline Industry - Concepts, Models and Methods
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
Research output: Research › Report – Annual report year: 2004

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

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 - peer-review › Article in proceedings – Annual report year: 2002

Introduktion til Operationsanalyse
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
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
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
Research output: Research - peer-review › Journal article – Annual report year: 1999

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

Projects:

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

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

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

Beslutningsstøtte til genopretning ved uregelmæssigheder i togdrift
Project: PhD

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

Dynamic University Timetabling
Project: PhD

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

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

Sustainable Disruption Management
Project: PhD

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

Disruption Management i transportsektoren
Project: PhD

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

Ikke-differentiabel optimering i heltalsprogrammering
Project: PhD
Robustness in Railway Planning
Project: PhD

Models and Algorithms for the Vehicle Routing Problem with Cross Docking
Project: PhD

Integriert disponering/genopretning af togdrift
Project: PhD

Solving Recovery Problems using Optimisation Methods
Project: PhD

Vehicle routing with time windows.
Project: Research

Activities:

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

ODYSSEUS (Event)
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

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 (Event)
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

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

A heuristic and hybrid method for the tank allocation problem in maritime bulk shipping
Activity: Talks and presentations › Conference presentations

The Tank Allocation Problem in Bulk Shipping
Activity: Talks and presentations › Conference presentations

Routing and Scheduling in Tramp Shipping - Integrating Bunker Optimization
Activity: Talks and presentations › Conference presentations

EUME Workshop on Metaheuristics (Event)
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Triennial Symposium on Transportation Analytics (Event)
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar
Prizes:

Hedorfs Fonds pris for Transportforskning 2017
Prize: Prizes, scholarships, distinctions