Research outputs:

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
Mitigation of airspace congestion impact on airline networks
Research output: Research - peer-review › Journal article – Annual report year: 2015

Reactive Robustness and Integrated Approaches for Railway Optimization Problems
Research output: Research › Ph.D. thesis – 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-serving 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 - Incorporating Additional Complexities
Research output: Research › Ph.D. thesis – Annual report year: 2015

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

Solving the Selective Multi-Category Parallel-Servicing Problem
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
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
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
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
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: Research › 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

On the vehicle routing problem with time windows  
Research output: Research › Ph.D. thesis – Annual report year: 2006

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 › Article in proceedings – Annual report year: 1997

Projects:

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

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

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

Beslutningsstøtte til genoptretning 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

Integreret disponering/genopretning af togdrift
Project: PhD

Solving Recovery Problems using Optimisations 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

OptALI 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