

CURRICULUM VITAE

Name: Johan Oppen
Born: September 23, 1961
Nationality: Norwegian
Profession: Research Scientist
Address: Møreforsking Molde, Britvegen 4, NO-6410 Molde, Norway
Telephone: +47 71214240, fax: +47 71214100
Electronic mail: Johan.Oppen@hiMolde.no
Home page: <http://home.himolde.no/~oppen/>

Education

Cand.mag: (B.Sc.) in mathematics and informatics at Molde University College, Norway, (1999-2002).
Master degree: (M.Sc.) in logistics at Molde University College, Norway, (2002–2004). Thesis supervisor: Arne Løkketangen. Thesis title: Arc Routing in a Node Routing Environment.
PhD: PhD in logistics at Molde University College, Norway, (2004–2008). Thesis supervisor: Arne Løkketangen. Thesis title: Models and solutions for rich transportation problems.

Work experience

1978 – 1996 The Norwegian Post Office (Counter clerk, accounting, mail delivery).
1996 – 1997 Aker Midsund (Welding, steel cutting).
1998 – 1999 Secondary school.
2004 – 2008 PhD student/Scholarship holder, Molde University College, Molde.
2008 – 2014 Associate Professor in Logistics, Molde University College, Molde.
2015 – Research Scientist in Logistics, Møreforsking Molde, Molde.

Teaching experience (all teaching carried out at Molde University College):

Advanced Programming (Java), 2005.
Introduction to Supply Chain Management (BSc level), 2009-2013.
Fundamentals of Logistics (MSc level) 2008-2012.
Exact Optimization Methods (MSc level) 2009-2013.
Models for Production Management (MSc level) 2013.

Student supervision

Supervised 12 MSc theses in Logistics at Molde University College 2009 – 2014.

PhD student Uladzimir Rubasheuski (2011 - scheduled to finish 2015). Working title of thesis: Transportation and inventory planning in an uncertain environment. Co-supervisor: Professor David L. Woodruff, University of California, Davis, California, USA.

PhD student Brice Assimizele (2012 - scheduled to finish 2016). Working title of thesis: Optimal Positioning of Tug Vessels along the Northern Norwegian Coast. Co-supervisors: Associate Professor Robin Trulssen Bye, Aalesund University College, Ålesund, Norway; Associate Professor Johannes O Royset, Naval Postgraduate School, Monterey, California, USA.

PhD student Nils Egil Søvde (June - December 2013), defended in December 2013. Title of thesis: Optimization of terrain transportation problems in forestry. Took over as main supervisor after Professor Arne Løkketangen died in June 2013.

Refereed journal publications

Decision support for flexible liner shipping. *Advances in Operations Research*. Accepted for publication.

Strategies for Handling Temporal Uncertainty in Pickup and Delivery Problems with Time Windows. *Transportation Science*. Accepted for publication. With F. Jordan Srouf and Niels Agatz.

A semi-greedy metaheuristic for the European cableway location problem. *Journal of Heuristics*. Vol. 42, No. 5 (2014) 374-377. With Nils Egil Søvde, Arne Løkketangen and Richard L. Church.

Multi-Stage Scenario Generation by The Combined Moment Matching and Scenario Reduction Method. *Operations Research Letters*. Vol. 42, No. 5 (2014) 374-377. With Uladzimir Rubasheuski and David L. Woodruff.

Keeping jigsaws connected. *Communications – Scientific Letters of the University of Zilina*, (1) pp 49-53, 2013.

An Attribute Based Similarity Function for VRP Decision Support. *Decision Making in Manufacturing and Services*, Vol. 6, No. 2, (2012) 65-83. (With Arne Løkketangen, Jorge Oyola and David L. Woodruff)

The Point of Diminishing Returns in Heuristic Search. *International journal of Metaheuristics*, Vol. 1, No. 3, 2011. (With David L. Woodruff and Ulrike Ritzinger)

Solving a rich Vehicle Routing and Inventory Problem using Column Generation. *Computers & Operations Research*, 37 (2010) 1308–1317. (With Jacques Desrosiers and Arne Løkketangen)

Parametric Models of Local Search Progression. *International transactions in Operational Research*, 16 (2009) pp. 627-640. (With David L. Woodruff)

A Tabu Search Approach for The Livestock Collection Problem. *Computers & Operations Research*, 35 (2008) pp. 3213-3229. (With Arne Løkketangen)

Arc Routing in a Node Routing Environment. *Computers & Operations Research*, 33 (2006) pp. 1033-1055 (With Arne Løkketangen)

Conference papers/presentations

Decision support for flexible liner shipping. INFORMS Annual Meeting, Philadelphia, Pennsylvania, USA, 2015.

A constructive heuristic for the two-dimensional bin packing problem with guillotine cuts and stacked boards. Fourth International Conference On Advances in Economics, Management and Social Study – EMS, Kuala Lumpur, Malaysia, 2015. (With Eivind Bale and Torbjørn Hjelden)

Routing of aircraft. EURO 2015, Glasgow, Great Britain, 2015.

Decision support for flexible liner shipping. VIII ALIO/EURO Workshop on Applied Combinatorial Optimization, Montevideo, Uruguay, 2014.

Dynamic Positioning of Tugboats. Optimization Days, Montreal, Canada 2014. (With Brice Assimizele and Johannes O Royset)

Decision support for flexible liner shipping. 2nd INFORMS Transportation Science and Logistics Society Workshop, Pacific Grove, California, USA, 2013. (With Ola Bø)

A sustainable model for optimal dynamic allocation of patrol tugs to oil tankers. 27th European Conference on Modelling and Simulation, Ålesund, Norway, 2013. (With Brice Assimizele and Robin T Bye) (Presented by Brice Assimizele)

Scheduling and Transportation in the Construction Industry. INFORMS Annual Meeting, Phoenix, Arizona, USA, 2012. (With Anastasia Rubasheuskaya)

A Combined Transportation-Inventory Problem for a Multi-Product Probabilistic Demand Environment. INFORMS Annual Meeting, Phoenix, Arizona, USA, 2012. (With Uladzimir Rubasheuski and David L. Woodruff) (Presented by Uladzimir Rubasheuski)

The Dynamic Dial-a-Chauffeur Problem. INFORMS Annual Meeting, Phoenix, Arizona, USA, 2012. (With Niels Agatz and Jordan Srour) (Presented by Niels Agatz)

The point of diminishing returns in heuristic search. MIC2011, Udine, Italy, 2011. (With David L Woodruff and Ulrike Ritzinger) (Presented by David L. Woodruff)

Distance based decision support for multi-objective VRP. MIC2011, Udine, Italy, 2011. (With Jorge Oyola, David L. Woodruff and Arne Løkketangen) (Presented by Jorge Oyola)

Connected sequences. CanaDAM 2011, Victoria, Canada, 2011.

Fleet design for maritime distribution of stone products. ECCO XXIII, Malaga, Spain, 2010. (With Robert K. Apetorgbor and Jing Lin)

Keeping jigsaw connected. Optimization Days, Montreal, Canada, 2010.

Keeping jigsaw connected. AAAC2010, Pohang, South Korea, 2010.

Parametric models of local search progression. ECCO XXII, Jerusalem, Israel, 2009. (With David L. Woodruff)

Parametric models of local search progression. VI ALIO/EURO Workshop on Applied Combinatorial Optimization, Buenos Aires, Argentina, 2008. (With David L. Woodruff)

The use of VRP Solution Distance Measures in Various DSS Applications. INFORMS Annual Meeting, Washington DC, USA, 2008. (With Arne Løkketangen, Jarl Korsvik, Kjetil Fagerholt and David L. Woodruff) (Presented by David L. Woodruff)

The Livestock Collection Problem. International Conference on Flexible Supply Chains in a Global Economy, Molde, Norway, 2008. (With Arne Løkketangen)

Solving rich VRPs by column generation. ECCO XXI, Dubrovnik, Croatia, 2008. (With Arne Løkketangen and Jacques Desrosiers)

Using column generation to solve rich VRPs. CORS/Optimization Days 2008, Quebec City, Canada, 2008. (With Arne Løkketangen and Jacques Desrosiers) (Presented by Arne Løkketangen)

Solving rich VRPs by column generation. INFORMS Annual Meeting, Seattle, USA, 2007. (With Arne Løkketangen and Jacques Desrosiers)

Parametric models of search progression. 2nd Nordic Optimization Symposium, Oslo, Norway, 2007. (With David L. Woodruff)

Transportation of Animals – Combining Routing and Inventory. 2nd Nordic Optimization Symposium, Oslo, Norway, 2007. (With Arne Løkketangen)

Parametric models of search progression. Doctoral Symposium on Engineering Stochastic Local Search Algorithms, Brussels, Belgium, 2007. (With David L. Woodruff)

An attribute based similarity function for VRP decision support. EURO 2007, Prague, Czech Republic, 2007. (With Arne Løkketangen and David L. Woodruff) (Presented by Arne Løkketangen)

Collecting animals for slaughter – adding inventory constraints to a real-world routing problem. 11th World Conference on Transportation Research, Berkeley, USA, 2007. (With Arne Løkketangen and David L. Woodruff)

Collecting animals for slaughter: a rich VRP with inventory constraints. NOW 2006 – Network Optimization Workshop, St. Remy de Provence, France, 2006. (With Arne Løkketangen) (Presented by Arne Løkketangen)

Combining routing and inventory when transporting animals to slaughter. EURO 2006, Reykjavik, Iceland, 2006. (With Arne Løkketangen) (Presented by Arne Løkketangen)

Transportation of Animals – Combining Routing and Inventory. 1st Nordic Optimization Symposium, Copenhagen, Denmark, 2006. (With Arne Løkketangen)

The Livestock Collection Problem. Norwegian Informatics Conference, Bergen, Norway, 2005. (With Arne Løkketangen)

The Livestock Collection Problem. OR2005, Bremen, Germany, 2005. (With Arne Løkketangen)

Transportation of livestock to slaughterhouses. MIC2005, Wien, Austria, 2005. (With Arne Løkketangen)

Transportation of live animals to slaughterhouses. ECCO XVIII, Minsk, Belarus, 2005. (With Arne Løkketangen)

Supplying slaughterhouses with livestock. EU/ME Workshop ”Metaheuristics and large scale optimization”, Vilnius, Lithuania, 2005. (With Arne Løkketangen) (Presented by Arne Løkketangen)

Node Aggregation in Vehicle Routing. Norwegian Informatics Conference, Stavanger, Norway, 2004. (With Arne Løkketangen)

A tabu search based heuristic for the 0/1 Multiconstrained Knapsack Problem. Norwegian Informatics Conference, Oslo, Norway, 2003. (With Arne Løkketangen and Solveig Grüner)

Invited conference presentations

Planning of Norwegian road construction and maintenance. SynchroTrans 2013, 1st International Workshop on synchronization in Transport, Mainz, Germany, 2013. (With Markus Brachner)

The Dynamic Dial-a-Chauffeur Problem. 2013 Optimization Days, Montreal, Canada, 2013. (With Niels Agatz and F. Jordan Srouf)

The Dynamic Dial-A-Chauffeur Problem. INFORMS Computing Society Meeting 2013, Santa Fe, New Mexico, USA, 2013. (With Niels Agatz and F. Jordan Srouf)

Intermodal Flexible Liner Shipping. EURO 2012, Vilnius, Lithuania, 2012. (With Ola Bø)

Intermodal Flexible Liner Shipping. INFORMS International, Beijing, China, 2012. (With Ola Bø)

The Driver Routing Problem. Verolog 2012, Bologna, Italy, 2012.

The Driver Routing Problem. IFORS 2011, Melbourne, Australia, 2011.

Animal Transportation – Adding Inventory Constraints to a Rich Vehicle Routing Problem. 12th INFORMS Computing Society Conference, Monterey, USA, 2011.

An Urban Transportation Service – Bringing You and Your Vehicle Home. INFORMS Annual Meeting, Austin, USA, 2010.

Maritime Distribution of Stone Products. INFORMS Annual Meeting, San Diego, USA, 2009.

Stone Quarry Planning. Optimization for Logistics Planning, Davis, USA, 2009.

Maritime distribution of stone products. EURO XXIII, Bonn, Germany, 2009.

Livestock Collection. Vehicle Routing in Practice 2008, Oslo, Norway, 2008.

Collection of animals for slaughter – adding inventory constraints to a VRP. INFORMS Annual Meeting, Pittsburgh, USA, 2006. (With Arne Løkketangen)

Collecting Animals for Slaughter – A Rich VRP with Inventory Constraints. CORS/Optimization Days, Montreal, Canada, 2006. (With Arne Løkketangen)

Transportation of Livestock to Slaughterhouses. Workshop on Solving Rich VRP Models, Molde, Norway, 2005. (With Arne Løkketangen)

Guest lectures

Dynamic Positioning of Tugboats. Naval Postgraduate School, Monterey, California, USA, June 5, 2014.

Routing problems. University of Westminster, London, Great Britain, October 31, 2011.

Real-World Vehicle Routing – The Livestock Collection Problem. Naval Postgraduate School, Monterey, California, USA, January 6, 2011.

Animal Transportation. Institute of Transportation Studies, University of California, Davis, USA, May 11, 2007.

Vehicle Routing. University of Westminster, London, Great Britain, November 2, 2005.

Transportation of livestock to slaughterhouses. GERAD, University of Montreal, Canada, April 28, 2005.

Vehicle Routing. Handelshøyskolen BI, Sandvika, Norway, October 11, 2004.