

Konstantin Pavlikov
Department of Business & Management (DBM)
Strategic Organization Design (SOD)
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Curriculum

Education:

University of Florida, Gainesville, FL. PhD in Operations Research, 2014.

Moscow State University, Moscow, Russia. MSc in Applied Mathematics, 2007.

Employment

Department of Business & Management (DBM)

Odense M

1. Jul 2023 → present

Associate Professor

Strategic Organization Design (SOD)

Odense M

1. Jul 2023 → present

Research outputs

Two-Commodity Opposite Direction Network Flow Formulations for the Travelling Salesman Problem

Pavlikov, K. & Petersen, N. C., 22. Mar 2025, In: Computational Optimization and Applications.

On the capacity inequalities for the heterogeneous vehicle routing problem

Pavlikov, K., Mar 2025, In: Operations Research Letters. 59, March, 7 p., 107239.

Exact separation of the rounded capacity inequalities for the capacitated vehicle routing problem

Pavlikov, K., Petersen, N. C. & Sørensen, J. L., Jan 2024, In: Networks. 83, 1, p. 197-209

Two-commodity opposite direction network flows for vehicle routing problems

Pavlikov, K. & Petersen, N. C., Jun 2022, p. 36.

Weapon-target assignment problem: exact and approximate solution algorithms

Andersen, A. C., Pavlikov, K. & Toffolo, T. A. M., May 2022, In: Annals of Operations Research. 312, 2, p. 581-606

Risk Averse Maximum Expected Covering Location Problem

Pavlikov, K., Veremyev, A., Boginski, V. & Pasiliao, E., 2021, (Submitted).

Risk Averse Weapon-Target Assignment Problem

Pavlikov, K., 2021, (In preparation).

Algorithms and Software for the Golf Director Problem

Benincasa, G., Pavlikov, K. & Hearn, D., Sept 2020, In: Journal of Sports Analytics. 6, 3, p. 155-172

Critical Nodes in Interdependent Networks with Deterministic and Probabilistic Cascading Failures

Veremyev, A., Pavlikov, K., Pasiliao, E., Thai, M. T. & Boginski, V., Aug 2019, In: Journal of Global Optimization. 74, 4, p. 803-838

Improved Formulations for Minimum Connectivity Network Interdiction Problems

Pavlikov, K., 1. Sept 2018, In: Computers & Operations Research. 97, p. 48-57

Optimization of Value-at-Risk: Computational Aspects of MIP Formulations

Pavlikov, K., Veremyev, A. & Pasiliao, E., 4. May 2018, In: Journal of the Operational Research Society. 69, 5, p. 676-690

CVaR Distance Between Univariate Probability Distributions and Approximation Problems

Pavlikov, K. & Uryasev, S., 1. Mar 2018, In: Annals of Operations Research. 262, 1, p. 67-88

Estimation of Truncated Data Samples in Operational Risk Modeling

Ergashev, B., Pavlikov, K., Uryasev, S. & Sekeris, E., Sept 2016, In: Journal of Risk and Insurance. 83, 3, p. 613-640

CVaR Norm and Applications in Optimization

Pavlikov, K. & Uryasev, S., Oct 2014, In: Optimization Letters. 8, 7, p. 1999-2020

Capital Asset Pricing Model (CAPM) with Drawdown Measure

Zabarankin, M., Pavlikov, K. & Uryasev, S., 2014, In: European Journal of Operational Research. 234, 2, p. 508-517

The Golf Director Problem: Forming Teams for Club Golf Competitions

Pavlikov, K., Hearn, D. & Uryasev, S., 2014, *Social Networks and the Economics of Sports*. M. Pardalos, P. & Zamaraev, V. (eds.). Springer, p. 157-170

Activities

Quantitative Insights in Carsharing: Demand, User Preferences, and Profitability

Pavlikov, K. (Examiner)

Jan 2025

A multi-parametric approach to API production

Pavlikov, K. (Examiner)

Aug 2024

An approximate dynamic programming approach for vehicle allocation under uncertainty

Pavlikov, K. (Examiner)

Aug 2024

Conditional value-at-risk as risk measure, and its application in a finance scenario model

Pavlikov, K. (Examiner)

Jun 2024

Conditional Value-at-Risk for General Loss Distributions Applied to Transport Problems

Pavlikov, K. (Examiner)

Jun 2024

Stochastic Programming Approaches in Portfolio Optimisation

Pavlikov, K. (Examiner)

Jun 2024

Two-Commodity Opposite Direction Network Flows for Vehicle Routing Problems

Pavlikov, K. (Guest lecturer)

Jun 2024

European Journal of Operational Research (Journal)

Pavlikov, K. (Peer reviewer)

Mar 2024

European Journal of Operational Research (Journal)

Pavlikov, K. (Peer reviewer)

Feb 2024

Optimal Classification Trees

Pavlikov, K. (Examiner)

Jan 2024

Optimal Pension Saving with Risk Aversion

Pavlikov, K. (Examiner)

Jan 2024

Computers & Operations Research (Journal)

Pavlikov, K. (Peer reviewer)

Jul 2023

An Adaptive Heuristic for Multi Commodity Fixed-Charge Network Flows

Pavlikov, K. (Examiner)

Jun 2023

Combinatorial Optimization via Genetic Algorithm: Test on a Ride Sharing Problem

Pavlikov, K. (Examiner)

Jun 2023

Comparing Different Formulations of the Distance Constrained Vehicle Routing Problem

Pavlikov, K. (Examiner)

Jun 2023

Fairness in the MCFCNFP - and Its Application in Public Transport

Pavlikov, K. (Examiner)

Jun 2023

Mean-CVaR model based on non-parametric estimation under MOPSO algorithm

Pavlikov, K. (Examiner)

Jun 2023

Exact Separation of the Rounded Capacity Inequalities for the Capacitated Vehicle Routing Problem

Pavlikov, K. (Guest lecturer)

2023

Exact Separation of the Rounded Capacity Inequalities for the Capacitated Vehicle Routing Problem

Pavlikov, K. (Guest lecturer)

2023

Computers & Operations Research (Journal)

Pavlikov, K. (Peer reviewer)
Sept 2022

A study of the efficiency of different decomposition methods on the network-constraint unit commitment problem with stochastic demand

Pavlikov, K. (Examiner)
Aug 2022

Two-Commodity Opposite Direction Network Flow Formulations for the Travelling Salesman Problem

Pavlikov, K. (Guest lecturer)
Jul 2022

Solving a unit commitment problem with integration of wind power

Pavlikov, K. (Examiner)
Jun 2022

Stochastic formulation of the liner shipping network design

Pavlikov, K. (Examiner)
Jun 2022

Two-Commodity Opposite Direction Network Flow Formulations for the Travelling Salesman Problem

Pavlikov, K. (Guest lecturer)
Jun 2022

Two-Commodity Opposite Direction Network Flows for Vehicle Routing Problems

Pavlikov, K. (Guest lecturer)
Jun 2022

European Journal of Operational Research (Journal)

Pavlikov, K. (Peer reviewer)
2022

IEEE Transactions on Systems, Man, and Cybernetics: Systems (Journal)

Pavlikov, K. (Peer reviewer)
2022

European Journal of Operational Research (Journal)

Pavlikov, K. (Peer reviewer)
2020

Mathematical Methods of Operations Research (Journal)

Pavlikov, K. (Peer reviewer)
2020

Optimization Letters (Journal)

Pavlikov, K. (Peer reviewer)
2020

Weapon-Target Assignment Problem: Exact and Approximate Solution Algorithms

Pavlikov, K. (Guest lecturer)
Oct 2019

Algorithms and Software for the Golf Director Problem

Pavlikov, K. (Guest lecturer)

May 2019

European Journal of Operational Research (Journal)

Pavlikov, K. (Peer reviewer)
2019

Omega (Journal)

Pavlikov, K. (Peer reviewer)
2019

29th European Conference on Operational Research

Pavlikov, K. (Participant)
2018

Computers & Operations Research (Journal)

Pavlikov, K. (Peer reviewer)
2018

European Journal of Operational Research (Journal)

Pavlikov, K. (Peer reviewer)
2018

Journal of Sports Analytics (Journal)

Pavlikov, K. (Peer reviewer)
2018

Multi-Period Probabilistic Set Covering Problem

Pavlikov, K. (Guest lecturer)
2018

Multi-Period Probabilistic Set Covering Problem

Pavlikov, K. (Guest lecturer)
2018

Omega (Journal)

Pavlikov, K. (Peer reviewer)
2018

Omega (Journal)

Pavlikov, K. (Peer reviewer)
2018

Tight Formulations for Value-at-Risk Minimization Problems

Pavlikov, K. (Guest lecturer)
10. Nov 2017

Journal of the Operational Research Society (Journal)

Pavlikov, K. (Peer reviewer)
2017

Multi-Period Probabilistic Set Covering Problem

Pavlikov, K. (Guest lecturer)
2017

Optimization Letters (Journal)

Pavlikov, K. (Peer reviewer)
2017

Prizes**Best Reviewer Award**

Pavlikov, K. (Recipient), 4. Dec 2019

Teaching and supervision**Operations and Supply Chain Management**

He, Y. & Pavlikov, K.
01/09/2022 → ...

Operations Research

Pavlikov, K. & He, Y.
01/09/2019 → 31/12/2021

Operations Research

Pavlikov, K. & Olesen, O. B.
01/09/2018 → 31/01/2022

Supply Chain Inventory and Production Planning

He, Y. & Pavlikov, K.
01/09/2017 → 31/12/2017

Supply Chain Inventory and Production Planning

Pavlikov, K. & He, Y.
01/09/2018 → 31/12/2018

Supply Chain Inventory and Production Planning

Pavlikov, K. & He, Y.
01/09/2019 → 31/12/2020

Supply Chain Inventory and Production Planning

Olesen, O. B. & He, Y.
01/09/2018 → 31/01/2021

Supply Chain Links and Enterprise Resource Planning

Pavlikov, K.
01/02/2018 → 31/05/2018

Supply Chain Links and Enterprise Resource Planning

Olesen, O. B.
01/02/2015 → 30/06/2018

Supply Chain Links and Enterprise Resource Planning

Pavlikov, K.
01/02/2019 → 31/05/2019

Supply Chain Links and Enterprise Resource Planning

Pavlikov, K.
01/02/2020 → 31/08/2021

Supply Chain Links and Enterprise Resource Planning

Olesen, O. B.
01/02/2019 → 31/08/2019

Virksomhedens informationssystemer

Haug, A.
01/02/2018 → 30/06/2024