

Curriculum Vitae: Dr. Andrei Sleptchenko

Personal Data

Surname	Sleptchenko
First name(s)	Andrei Vasiljevitsj
Date of birth	January 9 th , 1974
Place of birth	Barabinsk, Russia
Nationality	The Netherlands
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Google Scholar	scholar.google.nl/citations?user=b1tiXeEAAAAJ

Academic/ Professional Particulars

Field of Specialization

Supply chain management, Maintenance Logistics, Operations Research

Education

- 1998 – 2002 Ph.D. Degree in Operations Management and Logistics
University of Twente, Enschede, The Netherlands.
PhD dissertation: Integral Inventory Control in Spare Parts Networks
with Capacity Restrictions (ISBN 9036518172)
- 1997 – 1998 Master Class in Operations Research, University of Twente, Enschede, The
Netherlands
- 1991 – 1997 M.Sc. Degree (Cum Laude) in Applied Mathematics and Operations
Research, Novosibirsk State University, Novosibirsk, Russia
- 1996 – 1997 B.Sc. Degree in Economics and Management, Novosibirsk State
University, Novosibirsk, Russia

Honors and awards

Best PhD thesis award, years 2003-2004: BETA Research School, The Netherlands.

Employment History

Academic

- 2013 – Present Assistant Professor
Qatar University, Industrial Engineering, Doha, Qatar
- 2006 – 2007 Assistant Professor
Erasmus University of Rotterdam, The Netherlands
- 2005 – 2006 Visiting Assistant Professor
Tuck School of Business at Dartmouth, Dartmouth College, USA
- 2002 – 2004 Postdoctoral Researcher
Technical University of Eindhoven, The Netherlands

Industrial/Consultancy

- 2008 – 2013 Consultant – Ab Ovo International, The Netherlands
Design and implementation of decision support system for various logistics and workforce planning applications, onsite support.
- 2007 – 2008 Consultant – ORTEC B.V., The Netherlands
Development and implementation of the optimization module for KLM Airline Revenue Management System

Research

Research Interests

Stochastic models in logistics, production, maintenance
(Queueing Models, Inventory models, Transportation Systems),
Optimization models and techniques
(Mathematical Programming, Simulation based optimization)
Data Analytics and Machine Learning Applications

Citations (Google Scholar)

Citations: 399 (210 since 2011)
H-index: 11 (8 since 2011)
i10-index: 12 (7 since 2011)

Journal papers

1. Maintaining Secure and Reliable Distributed Control Systems, with M.Eric Johnson, *Inform's Journal on Computing*, 2015, 27(1).
2. Joint queue length distribution of multi-class, single server queues with preemptive priorities, with J.Selen, I.Adan and G.J. van Houtum, 2015, *Queueing Systems*, 81 (4).
3. Reducing Costs of Spare Parts Supply Systems via Static Priorities, with I. Adan, G.J. van Houtum, *Asia-Pacific Journal of Operational Research*, 2009, 26(4).
4. The floating stock policy in fast moving consumer goods supply chains, with M. Pourakbar, R. Dekker, *Transportation Research Part E*, 2009, 45(1).
5. Location of repairshops in a stochastic environment, with J.C.W. van Ommeren and A. Bumb. *Computers and Operations Research*, 2006, 33(6)
6. On multi-class multi-server queue with preemptive priority rule, with A. van Harten, M.C. van der Heijden. *Queueing Systems*, 2005, 50(1).
7. Approximations for Markovian multi-class queues with preemptive priorities, with A. van Harten, M.C. van der Heijden. *Operations research letters*, 2004, 32(3).
8. Using repair priorities to reduce stock investments in spare part networks, with A. van Harten, M.C. van der Heijden. *European Journal of Operational Research*, 2004, 163(3).
9. On Markovian multi-class, multi-server queueing, with A. van Harten, *Queueing Systems*, 2003, 43(4).

10. A trade-off between inventory and repair capacity in spare part networks, with A. van Harten, M.C. van der Heijden. *Journal of Operational Research Society*, 2003, 54(3)
11. An exact analysis of the multi-class M/M/k priority queues with outsourcing, with A. van Harten, M.C. van der Heijden. *Stochastic Models*, 2003, 19(4).
12. Effects of finite repair capacity in multi-echelon, multi-indenture service part supply systems, with A. van Harten, M.C. van der Heijden. *International Journal of Production Economics*, 2002, 79(3).

Book

13. Integral inventory control in spare parts networks with capacity restrictions. A. Sleptchenko, Ph.D. thesis, ISBN: 9036518172, 2002.

Submitted for publication

14. Joint optimization of redundancy level and spare part inventories, with M.C. van der Heijden, submitted for publication

Awarded Research Grants

2015 - 2018 Lead Principle Investigator in Qatar Foundation research grant on “Optimal Exploitation of Resources in Maintenance Logistics” (NPRP7-308-2-128), total budget 884,793.00 USD

2016 - 2019 Principle Investigator in Qatar Foundation research grant on “Direct Metal Laser Sintering Technology for the Manufacture of Fully Porous Functionally Graded Titanium Alloy Femoral Stems” (NPRP8-876-2-375), total budget 713,431.00 USD

Not Awarded Research Proposals

Floating Stock concept in Bulk Transportation Systems
Additive Manufacturing of Mechanical Components for Oil and Gas Industry

Teaching

Teaching Interests

Supply Chain Management, Production and Operations Management, Statistics and Data Analytics, Operations Research (Applied Probability and Optimization)

Teaching Experience

MBA Level

Dartmouth College, Tuck School Of Business
Analysis and Operation of Inventory Systems

Graduate Level

Erasmus University of Rotterdam, School of Economics
Advanced Inventory Supply Chain Management

Qatar University, School of Engineering
Applied Statistical Techniques
Materials and Logistics Management

Undergraduate level

Qatar University, School of Engineering
Probability & Statistics for Engineers
Operations Research
Maintenance Planning and Control

Supervision

Master Theses: 4 master students in Logistics and Operations Research

Bachelor Theses: 10 bachelor students in Logistics and Operations Research

Most of the students' projects were based on real life cases from companies in the Netherlands and Qatar. The research topics included optimization of spare parts inventories, facility layout planning, helicopter seat assignment, vessel loading sequencing.

Service

Administrative (*Qatar University*)

Organized two workshops on Maintenance Logistics for local companies in Qatar
Participated in Department Outreach and Newsletter Committees

Referee activities

Computers and Operations Research, Reliability Engineering & System Safety, Performance Evaluation, Production and Operations Management, International Journal of Production Economics, ISIR symposium on inventories, Omega: The International Journal of Management Science, Queueing systems: Theory and Applications, Statistica Neerlandica, OR Spectrum

Others

Membership of professional bodies:

INFORMS (joined 2002)

LNMB (Dutch Society of Operations Research) joined 2002

ISIR (International Society for Inventory Research) joined 2006

IT hands-on experience

Software: CPLEX, Gurobi, AIMMS, AnyLogic, MATLAB, LaTeX, other

Languages: Python, Java, C++, Delphi, VB, different scripting languages

OS: OSX, Linux, Windows (Win7, Server 2008)

Languages

English	advanced level
Dutch	advanced level
Russian	native speaker

Academic References

Prof. Dr. M. Eric Johnson
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