

Nurşen Aydın, PhD

CONTACT

INFORMATION

University of Warwick
Warwick Business School
Operational Research & Management Sciences Group
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RESEARCH INTERESTS

Stochastic dynamic programming; revenue management and pricing; sustainable transport planning.

EDUCATION

Ph.D., Industrial Engineering, Sabancı University, 2010 - 2014
Thesis: *New Policies for Capacity Allocation in Revenue Management*
Advisor: Prof. Ş. İlker Birbil

M.Sc., Industrial Engineering, Sabancı University, 2007 - 2009
Thesis: *New Models for Single Leg Airline Revenue Management with Overbooking, No-Shows and Cancellations*
Advisor: Prof. Ş. İlker Birbil
Co-Advisor: Assoc. Prof. Nilay Noyan

B.Sc., Industrial Engineering, Marmara University, 2002-2007
Thesis: *Bar Code Systems and Warehouse Layout Optimization in Airfel Sanko*
Advisor: Asst. Prof. Serol Bulkan

ACADEMIC

EXPERIENCE

Assistant Professor, University of Warwick, Coventry, UK
Warwick Business School, 06/2016 - present

Marie Curie Research Fellow, Brunel University, London, UK
Brunel Business School, 01/2015 - 05/2016
Research: *MINI-CHIP Project (EU FP7 Programme)*

Visiting Researcher, Cornell University, Ithaca, New York
School of Operations and Information Engineering, 10/2011 - 05/2012
Research: *Delayed Purchase Decisions in Single-Leg Revenue Management*

Teaching Assistant and Research Assistant, Sabancı University, Istanbul, Turkey
Faculty of Engineering and Natural Sciences, 2007-2009 and 2010-2014

AWARDS

Dr. Gursel Sonmez Research Award, Sabancı University, 2014
Teaching Assistant Award, Sabancı University, 2014
Best Paper Award, International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS 2011)

The Scientific and Technological Research Council of Turkey (TUBITAK) Scholarship,
Ph.D. and M.Sc. education

Sabancı University,
Ph.D. and M.Sc. education scholarship, full scholarship

Marmara University,
Graduated from Marmara University with the highest GPA among graduating
class, 2007.

JOURNAL
ARTICLES

Aydın, N., Lee, H. and Mansouri, A., Speed Optimization in Liner Shipping in the
Presence of Uncertain Service Time and Time Windows at Ports, *European Journal
of Operational Research*, under revision.

Aydın, N. and Birbil, Ş.İ., Decomposition Methods for Solving Dynamic Programming
Problems in Hotel Revenue Management, *Production and Operations Management*,
under revision.

Aydın, N., Birbil, Ş.İ. and Topaloğlu, H., Delayed Purchase Decisions in Single-Leg
Revenue Management, *Transportation Science*, in press.

Aydın, N., Karaca, M. and Erçetin, Ö., Scheduling and Power Control for Energy-
Optimality of Low Duty Cycled Sensor Networks, *International Journal of
Distributed Sensor Networks*, Article ID 432978, 2015.

Keskin, G. A., Omurca, S. İ., Aydın, N. and Ekinci E., A Comparative Study of
Production-Inventory Model for Determining Effective Production Quantity and
Safety Stock Level, *Applied Mathematical Modelling*, 39, 6359-6374, 2015.

Aydın, N., Birbil, Ş.İ., Frenk, J.B.G and Noyan, N., Single-Leg Airline Revenue
Management with Overbooking, *Transportation Science*, 47, 560-583, 2013.

WORKING
PAPERS

Aydın, N., Gül, S. and Birbil, Ş.İ., Optimal Capacity Allocation for Operating Rooms
Under Uncertainty.

Aydın, N., Lee, H. and Mansouri, A., Speed Optimization in the Event of Disruptions.

CONFERENCE
PROCEEDINGS

Aydın, N., Karaca, M. and Erçetin, Ö., Energy-Optimal Scheduling in Low Duty Cycle
Sensor Networks. *International Symposium on Performance Evaluation of
Computer and Telecommunication Systems (SPECTS 2011)*, The Hague,
Netherlands, June 2011 (Best Paper Award).

CONFERENCE PRESENTATIONS

Aydın, N. Mansouri, A. and Lee, H., Vessel Speed Optimization Problem in Liner Shipping with Stochastic Port Times, 27th European Conference on Operational Research, Glasgow, United Kingdom, 2015.

Aydın, N. and Birbil, Ş.İ., Decomposition Methods for Solving Hotel Revenue Management Problem, INFORMS Revenue Management and Pricing Section Conference, Istanbul, Turkey, 2014.

Aydın, N., Birbil, Ş.İ. and Topaloğlu, H., Delayed Purchase Decisions in Single-Leg Revenue Management,

- INFORMS Revenue Management and Pricing Section Conference, Berlin, Germany, 2012.
- 26th European Conference on Operational Research, Rome, Italy, 2013.

Aydın, N., Birbil, Ş.İ., Frenk, J.B.G. and Noyan, N., Single-Leg Airline Revenue Management with Overbooking,

- 23rd European Conference on Operational Research, Bonn, Germany, 2009.
- 30th National Congress on Operations Research and Industrial Engineering (YAEM 2010), Istanbul, Turkey, 2010.
- 24th European Conference on Operational Research, Lisbon, Portugal, 2010.
- INFORMS 2011 Midwestern Conference, Columbus, OH, 2011 (presented by Prof. N. Noyan)

PROJECTS

Revenue management software for charter flights,
Hitit Computer Services, expected submission August 2016.

SERVICE

Publicity Officer: INFORMS Revenue Management and Pricing Conference in 2014, Istanbul, Turkey

Session Chair: Revenue Management and Dynamic Pricing - Airline Applications in Revenue Management. 26th European Conference on Operational Research (EURO/INFORMS 2013, Rome, Italy).

PROFESSIONAL EXPERIENCE

Pegasus Airlines, Istanbul, Turkey

Asst. Revenue Management Analyst, Sales Department - Scheduled Flights
(May-September 2009)

- Controlling the capacity and fares applied to specific destinations and flight groups.
- Suggesting pricing actions and/or campaigns for itineraries based on requests.

SKILLS AND INTERESTS

Programming: Matlab, Python, Java
 Optimization: IBM ILOG Optimization Studio (CPLEX - OPL)
 Productivity: LATEX, Microsoft Office suite, html
 Interests: Playing Flute, Photography, Drawing, Sailing
 Languages: Turkish (native), English (advanced), German (basic)