OSMAN ALP, Ph. D. – CV

Personal Information

Address: Scurfield Hall SH120, 2500 University Drive NW, Calgary AB T2N

1N4

Phone: +1 403 220 3477

E-mail: osman.alp@ucalgary.ca, alposman@gmail.com

Education

1995 - 2000 *Ph. D. Degree*

Industrial Engineering Department,

Middle East Technical University, Ankara, Turkey.

1993 – 1995 *M.S. Degree*

Industrial Engineering Department,

Middle East Technical University, Ankara, Turkey.

1989 – 1993 B. S. Degree

Industrial Engineering Department,

Middle East Technical University, Ankara, Turkey.

Academic Experience

2023 – Professor

Operations and Supply Chain Management

Haskayne School of Business,

University of Calgary, Calgary, AB Canada

2015 – 2023 Associate Professor

Operations and Supply Chain Management

Haskayne School of Business,

University of Calgary, Calgary, AB Canada

2012 – 2015 Associate Professor

Department of Industrial Engineering, TED University, Ankara, Turkey.

2012 – 2013 Visiting Professor

Accounting, Operations, and Information Systems

Alberta School of Business,

University of Alberta, Edmonton AB, Canada

2003 – 2012 Assistant Professor.

Department of Industrial Engineering, Bilkent University, Ankara, Turkey.

2000 –2003 Postdoctoral Research Fellow and Sessional Instructor.

Department of Finance and Management Science,

School of Business, University of Alberta, Edmonton, Canada.

1994 - 2000	Research and Teaching Assistant.
	Industrial Engineering Department,
	Middle East Technical University, Ankara, Turkey.

Administrative Experier

Transmission to Emp		
2021 –	Co-Director Digitization for Innovative Supply Chains (DISC) Consortium Haskayne School of Business, University of Calgary http://haskayne.ucalgary.ca/disc	
2017 –	Area Chair Operations and Supply Chain Management Haskayne School of Business, University of Calgary	
2016 – 2017	Research Director Operations and Supply Chain Management and Finance Haskayne School of Business, University of Calgary	
2013 – 2015	Chair Department of Industrial Engineering, TED University, Ankara Turkey	
Awards and Recognitions		
2021	Big Idea Research Grant Recipient Haskayne School of Business, University of Calgary	
2020	Dean's Research Scholar Haskayne School of Business, University of Calgary	
Experience in Applied Research Projects		
2021 – 2022	Co-Applicant Investigator "Managing Customer Expectations in On-Demand Service Platforms", sponsored by SSHRC Partnership Engage Grants	

2019 – 2022 Principal Investigator

"Analyzing the Potential Bias and Unfairness in Artificial Intelligence Algorithms and Assessing the Impact on Society", sponsored by SSHRC Insight Grants

2018 – 2021 Collaborator

"Canadian Northern Corridor Program: A research program on the feasibility of multi -modal rights-of-way in Canada's north and nearnorth", sponsored by SSHRC Partnership Development Grants

2011 – 2012 Co-Applicant Investigator

"Production Planning and Scheduling for the Production of Doors in the Body Shell Department of Renault factory", sponsored by Ministry of Science, Industry, and Technology and OYAK Renault

2009 – 2011	Principal Researcher. "Hazardous Waste Transportation and Disposal System Design: Minimization of Environmental and Public Risks", sponsored by TUBITAK
2008	Researcher. "Cycle Time Optimization in Press Department of Renault factory", sponsored by OYAK Renault.
2008	Researcher. "Production Planning based on Available Information", sponsored by TOFAS FIAT.
2001 - 2003	Researcher. "Regional Fiber Optic Telecommunications Network Design", sponsored by Bell-West Canada.
2001	Principle Researcher. "Relocating an Existing Concrete Plant of Inland Cement Industries", sponsored by Inland Cement Canada.
1999 – 2000	Researcher. "Implementation of Oracle ERP Applications Finance and Purchasing Modules for Financial Units of Middle East Technical University", sponsored by the university.
1996 – 1997	Researcher. "A Computer Aided Production Management System Design for Holonic Manufacturing", sponsored by TAKSAN A.S. (a leading machine tool manufacturing company) and Technology Development Foundation of Turkey.
1995 – 1996	System Analyzer, Designer and Developer. "A Software Tool for the Distribution System of a Local Soft Drinks Reseller", sponsored by MEGAS (a private soft drinks reseller).

Working Papers

[W5] A. Aslani and O. Alp. 2023. "Scope Contracts to Coordinate Assortment Planning in Omni-Channel Retail Supply Chains".

[W4] Y. He, X. Tang, and O. Alp. 2023. "Cooperation or Encroachment in Industrial Symbiosis".

[W3] A. Aslani and O. Alp. 2022. "Assortment Planning for Omni-Channel Retailers under Product Returns". Available at https://ssrn.com/abstract=4190704

[W2] O. Alp and M. Ajam. 2022. "An Approach to Plan Infrastructural Investments to Facilitate Domestic Trade". Available at https://ssrn.com/abstract=4218501

[W1] O. Alp, T. Tan, and M. Udenio. 2022. "Retreat, Defend, or Attack? Optimal Investment Decisions in Green Technology". Available at https://ssrn.com/abstract=4207037

Publications in Refereed Journals

- [P17] O. Alp, T. Tan, and M. Udenio. 2022. "Transitioning to Sustainable Freight Transportation by Integrating Fleet Replacement and Charging Infrastructure Decisions". OMEGA. 109, 102595. https://doi.org/10.1016/j.omega.2022.102595
- [P16] O. Alp and A. Sen. 2021. "Delegation of Stocking Decisions Under Asymmetric Demand Information". Manufacturing & Service Operations Management. 23, 55 69 (1). https://doi.org/10.1287/msom.2019.0810
- [P15] T. Tan and O. Alp. 2016. "Optimal sourcing from alternative capacitated suppliers with general cost structures". OMEGA. 58, 26 32. https://doi.org/10.1016/j.omega.2015.03.011
- [P14] U. Gurler, O. Alp, N.C. Buyukkaramikli. 2014. "Coordinated Inventory Replenishment and Outsourced Transportation Operations". Transportation Research Part E. 70, 400 415. https://doi.org/10.1016/j.tre.2014.08.004
- [P13] O. Alp, T. Huh, T. Tan. 2014. "Inventory Control with Multiple Setup Costs". Manufacturing & Service Operations Management. 16(1), 89 103. https://doi.org/10.1287/msom.2013.0450
- [P12] N.C. Buyukkaramikli, U. Gurler, O. Alp. 2014. "Coordinated Logistics: Joint Replenishment with Capacitated Transportation for a Supply Chain". Production and Operations Management. 23(1), 110 126. https://doi.org/10.1111/poms.12041
- [P11] M.M. Tanrikulu, A. Sen, and O. Alp. 2010. "A Joint Replenishment Policy with Individual Control and Constant Size Orders". International Journal of Production Research. 48. 4253 4271. https://doi.org/10.1080/00207540802662904
- [P10] G. Mincsovicz, T. Tan, and O. Alp. 2009. "Integrated Capacity and Inventory Management with Capacity Acquisition Lead Times". European Journal of Operational Research. 196, 949 958. https://doi.org/10.1016/j.ejor.2008.04.016
- [P9] M.F. Pac, O. Alp, and T. Tan. 2009. "Integrated Workforce Capacity and Inventory Management Under Temporary Labor Supply Uncertainty". International Journal of Production Research, 47(15), 4281 4304. https://doi.org/10.1080/00207540801930237
- [P8] T. Tan and O. Alp. 2009. "An Integrated Approach to Inventory and Flexible Capacity Management Under Non-stationary Stochastic Demand and Set-up Costs". OR Spectrum, 31(2), 337 360. https://doi.org/10.1007/s00291-008-0122-y
- [P7] O. Alp and T. Tan. 2008. "*Tactical Capacity Management under Capacity Flexibility in Make-to-Stock Systems*". IIE Transactions, 40(3), 221 237. https://doi.org/10.1080/07408170701488052
- [P6] O. Alp, K. Erkoy, B.Y. Kara, and I. Sabuncuoglu. 2007. "MAN Turkey Improves the Assembly Line Performance by Managing the In-House Parts". Interfaces, 37(4), 353-354. Practice Abstract.

[P5] E. Erkut and O. Alp 2007. "Designing a Road Network for Hazardous Materials Shipments", Computers & OR, 34(5), 1389-1405. https://doi.org/10.1016/j.cor.2005.06.007

[P4] E. Erkut and O. Alp. 2007. "Integrated Routing and Scheduling of Hazmat Trucks with Stops En-Route". Transportation Science, 41(1), 107-122. https://doi.org/10.1287/trsc.1060.0176

[P3] O. Alp, Z. Drezner, and E. Erkut. 2003. "An Efficient Genetic Algorithm for the p-Median Problem", Annals of Operations Research. 122, 21-42. https://doi.org/10.1023/A:1026130003508

[P2] O. Alp, N. K. Erkip, and R. Gullu. 2003. "Optimal Lot Sizing/Vehicle Dispatching Policies under Stochastic Lead Times and Stepwise Fixed Costs", Operations Research. 53(1). 160-166.

https://doi.org/10.1287/opre.51.1.160.12799

[P1] O. Alp, N. K. Erkip, and R. Gullu. 2003. "Outsourcing Logistics: Design of Contracts Between a Manufacturer and a Transporter", Transportation Science, 37(1), 23-39. https://doi.org/10.1287/trsc.37.1.23.12818

Book Chapter

[C1] T. Tan, O. Alp. 2016. "Tales of a Fashion So(u)rcerer: Optimal Sourcing, Quotation, and In-House Production Decisions". In Analytical Modeling Research in Fashion Business. T-M. Choi (editor). 129 – 153. Springer Singapore. http://doi.org/10.1007/978-981-10-1014-9 8

Other Publications

C. Dalokay, G. Ertürk, İ.S. Kaçar, O. Ünlüönen, G. Yazici, O. Alp. 2005. "Dahili İmalat Parça Yönetimi: Evinde Üret, Sistemli Yönet". Endustri Muhendisligi Dergisi. (In Turkish)

Alp, O., R. Gullu, S. Kayaligil, O. Kirca, and T. Tufekci. 1997. "A Tabu Search Algorithm For Cell Formation Problem", Remaphos Euroka/Factory 2nd Working Group Meeting Proceedings

Alp, O., R. Gullu, S. Kayaligil, O. Kirca, and T. Tufekci. 1997. "A Conceptual Model for MPS-MRP-CRP Operation in Holonic Manufacturing", Remaphos Euroka/Factory 2nd Working Group Meeting Proceedings.

Books Edited

2005 – 2011 Endüstri Projeleri (Industry Projects) 2005 – 2011
Editorial board.
Department of Industrial Engineering, Bilkent University
Ankara.

Media Coverage

2022 "Broken Links: From 'just in time' to 'just in case" The Logic, National Post. https://bit.ly/3RkCkEg

2022	"It's time for corporations to invest in electric trucks" UToday University of Calgary https://news.ucalgary.ca/news/its-time-corporations-invest-electric-trucks
2020	"Better customer service linked to improved local input" UToday University of Calgary https://haskayne.ucalgary.ca/news/better-customer-service-linked-improved-local-input
2020	"Calgary's Overlooked Transportation and Logistics Sector" Business in Calgary, https://businessincalgary.com/top-news/calgarys-overlooked-transportation-and-logistics-sector/
Services to the Fiel	d
2019 –	Meetings Committee Member INFORMS – Institute for Operations Research and Management Science
2019 –	PhD Program Committee Haskayne School of Business, University of Calgary
2018 –	Faculty Representative General Faculties Council, University of Calgary
2018 –	Faculty Representative Data Science and Analytics Graduate Program Working Group
2018 –	Member SUPPORT NSERC CREATE Committee University of Calgary
2017 –	External Advisory Board Member Canadian Center for Advanced Supply Chain and Logistics Haskayne School of Business, University of Calgary
2017 –	Academic Advisory Board Member Canadian Center for Advanced Leadership in Business Haskayne School of Business, University of Calgary
2005 –	Editorial Advisory Board Member Computers & Operations Research, Elsevier
2020	Conference Co-Chair MSOM 2020 Conference, Banff AB (Canceled due to Covid)
2016	Program Co-Chair CORS 2016 Annual Conference, Banff AB
2013 – 2015	Chair of Course Scheduling Committee TED University Responsible of generating course schedules for the university
2009 – 2012	Member of Board of Directors Bilkent USIM (University Industry Collaboration Center). Founding Member

2009 – 2012	Chair of Summer Training Committee Department of Industrial Engineering, Bilkent University Responsible of improvement and conduct of the summer training courses. Designed new programs.
2007 – 2012	Chair of Student Perception Evaluation Committee Department of Industrial Engineering, Bilkent University Design and conduct surveys to assess the extent that the departmental outcomes are achieved from the students' perspective.
2006 – 2011	Editorial Board Member Endustri Muhendisligi Dergisi (Industrial Engineering Journal), Chamber of Mechanical Engineers
2006 – 2009	Member of Graduate Committee Department of Industrial Engineering, Bilkent University Responsible of design, improvement, conduct of the graduate program.
2003 – 2007	Member of Executive Committee Turkish Operational Research Society

Referee for Scholarly Work

2003 –	Refereeing for Journal Articles Applied Mathematical Modeling, Computers & OR, European Journal of Operational Research, Flexible Services and Manufacturing, IISE Transactions, INFOR, International Journal of Production Economics, International Journal of Production Research, Management Science, Manufacturing & Service Operations Management, Naval Research Logistics, Omega, OR Spectrum, Transportation Research Part B, Transportation Research Part E, Transportation Science
2015 –	Refereeing for Grant Proposals NSERC, SSHRC, MITACS
Theses	
2000	Ph. D. Thesis. "Design and Analysis of Contracts Between a Manufacturer and A Transporter", supervised by Prof. Dr. Nesim Erkip and Assoc. Prof. Dr. Refik Gullu.
1995	M.S. Thesis. "Analysis of Production/Inventory Systems Under Multiplicative Form of Forecast Evolution", supervised by Assoc. Prof. Dr. Refik Gullu.

Graduate Student Supervision

2021 – Saman TeymoorianMotlagh. PhD Thesis. "Community Solar Model for Adoption of Solar Energy". Co-supervising with Serasu Duran

2021	Nouran Habib. MSc Thesis. "Dynamic Shared Autonomous Vehicle Fleet Operations with Consideration of Fairness". Co-supervised with Lina Kattan
2020 –	Mohammadreza Shahsahebi. PhD Thesis. "Fairness and Bias in Machine Learning and Artificial Intelligence". Co-supervising with Alireza Sabouri
2018 –	Amin Aslani. Ph.D. Thesis. "Omni Channel Retailing with Returns"
2012	Nurcan Bozkaya. M.S. Thesis. "Production Planning and Scheduling for the Production of Doors in the Body Shell Department of Renault Factory". Co-supervised with Mehmet Rustu Taner. Thesis sponsored as SANTEZ by Ministry of Science, Industry, and Technology.
2012	Ezel Budak. M.S. Thesis. "Analysis of Call Center Operations of a Hospital".
2011	Pelin Elaldi. M.S. Thesis. "Distribution of Petroleum Products in Turkey by Using Multiple Modes of Transportation". Co-supervised by Bahar Yetis Kara.
2010	Gokce Akin, M.S. Thesis. "Inventory Management of Medical Supplies in a Hospital"
2010	Yasar Altunoglu. M.S. Thesis. "Cash Inventory Management at ATMs". Co-supervised with Alper Sen
2009	Emre Uzun. M.S. Thesis. "A Heuristic Algorithm for an Integrated Routing and Scheduling Problem with Stops en-route",
2008	Banu Karakaya. M.S. Thesis. "Shortest Path Problems with Re-routing en-route"
2007	Nurdan Ahat. M.S. Thesis. "Multi-period Inventory Models with Price Protection", co-supervised with Alper Sen
2006	Mehmet Fazil Pac. M.S. Thesis. "Integrated Flexible Capacity and Inventory Management under Flexible Capacity Uncertainty"
	Nasuh Cagdas Buyukkaramikli. M.S. Thesis. "Joint Replenishment Problem in Two Echelon Inventory Systems with Transportation Capacity", co-supervised with Ulku Gurler
	Mehmet Mustafa Tanrikulu. M.S. Thesis. "Joint Replenishment Problem with Truck Cost Structures", co-supervised with Alper Sen
Postdoctoral Res	search Fellow Supervision

2019 - 2021

Meraj Ajam. "A Trade-Cost Based Framework to Plan Infrastructure Projects to Facilitate Access to Northern Territories of Canada"

Courses Taught

At University of Calgary

Field Investigation in Operations and Supply Chain Management

Inventory Management (PhD)

Logistics Management

Managerial Decision Making (Executive MBA)

Operations and Supply Chain Management

Procurement Management for Supply Chains

Supply Chain Analytics (MBA)

At TED University:

Introduction to Information Technologies

Introduction to Multivariable Calculus and Linear Algebra

Introduction to Probability Theory

Lean Process Design

Manufacturing and Service Operations Planning II

Mathematical Modeling and Optimization III

Modeling and Analysis Under Uncertainty (Graduate Level)

At Alberta School of Business, University of Alberta:

Operations Management (Executive MBA)

Business Process Management

Distribution Management

Service Operations Management

At Bilkent University:

Analytical Models for Supply Chain Management (Graduate Level)

A Process Outlook for Industrial Engineers

Inventory Planning Problems

Modeling and Analysis of Production Systems

Operations Analysis and Design

Quality Assurance and Reliability

Production Planning and Control

Stochastic Models

Systems Design – Analysis and Synthesis

Areas of Interest

Inventory Problems / Distribution Systems

Supply Chain Management and Logistics

Sustainable Transportation

Bias in Machine Learning and Artificial Intelligence

Transportation of Hazardous Materials

Training Certificates

1999	Oracle Applications Finance Module Partner Training, including
	General Ledger, Accounts Receivables, Accounts Payables,
	Purchasing, Assets.
	Oracle Applications Discrete Manufacturing Partner Training,
	including Inventory, WIP, Engineering, Planning, Purchasing, Order
	Entry, Supply Chain, and Cost Management.

Congress and Symposiums

October 2021	INFORMS Annual Meeting. Anaheim, CA. "A Framework for Planning Access Corridors to Northern Territories of Canada"
June 2021	M&SOM Annual Conference. Indiana, OH. "Retreat, Defend, or Encroach? Optimal Investment Decisions in Green Technology under Competition"
October 2020	INFORMS Annual Meeting. Washington, DC. "Renewable Generation Capacity Planning For Municipalities"
October 2019	INFORMS Annual Meeting. Seattle, WA. "Adoption of Electric Trucks in Freight Transportation"
October 2018	INFORMS Annual Meeting. Phoenix, AZ. "Adoption of Electric Trucks in Freight Transportation"
October 2017	INFORMS Annual Meeting. Houston, TX. "Optimal Adoption Strategies of Electric Vehicles in Commercial Fleets"
October 2017	INFORMS Annual Meeting. Nashville, TN. "Scheduling of Regular and On-Call Staff in Retailers when Sales are Correlated with Store Traffic and Staffing"
June 2017	MSOM Conference. Chapel Hill, NC. "Store Incentives and Retailer Inventory Performance under Asymmetric Demand Information and Unobservable Lost Sales"
May 2016	CORS Annual Conference. Banff, AB. "Incentive Alignment in an Inventory System under Asymmetric Information and Unobservable Shortages"
May 2016	POMS Annual Conference. Orlando, FL. "Inventory Management for a Lost Sales Environment Under Asymmetric Information"
November 2014	INFORMS Annual Meeting. San Francisco. "Coordinated Inventory Replenishment and Outsourced Transportation Operations".
June 2014	MSOM Conference. Seattle. "Optimal Sourcing Decisions under Alternative Capacitated Suppliers and General Cost Structures".
June 2011	INFORMS Health Care Conference. Montreal. "Analysis and Design of Call Center Operations of a Hospital".

October 2010	INFORMS Annual Meeting, Austin. "Improved Inventory Control in Supply Chains Under Lost Sales and Incomplete Information"
October 2010	INFORMS Annual Meeting, Austin. "A Hybrid Policy for the Inventory Control of Medical Supplies in Hospitals"
October 2009	INFORMS Annual Meeting, San Diego. "Inventory Control with Partial Batch Ordering"
October 2009	INFORMS Annual Meeting, San Diego. "Tales of a So(u)rcerer: Optimal Sourcing Decisions Under Alternative Capacitated Suppliers"
August 2008	10 th International Symposium on Inventories, presented "Tactical Capacity Management under Capacity Flexibility in Make-to-Stock Systems", Budapest, Hungary
July 2007	INFORMS Annual Meeting, Seattle, "Multi-period Inventory Models with Price Protection"
July 2006	INFORMS International, Hong Kong, "Workforce Capacity Management in Make-to-Stock Systems with Uncertain Supply of Contingent Labor"
July 2005	National Congress on IE/OR, presented "Rassal Talep ve Sabit Sipariş Giderleri Altında Envanter ve Esnek Kapasite Yönetimine Bütünleşik Bir Yaklaşım", İstanbul, Turkey.
July 2004	M&SOM 2004, presented "Analysis of Lot Sizing / Vehicle Dispatching Problems with Stochastic Transit Times and Step-Wise Costs", Eindhoven, the Netherlands.
August 1999	4 th ISIR Summer School on Inventory Modeling, presented "Integrated Vehicle Dispatching and Inventory Control Problem Under Transportation Contracts", Exeter, UK.
August 1998	10 th International Symposium on Inventories, presented "Design of Contracts Between a Manufacturer and a Transporter", Budapest, Hungary.
March 1997	REMAPHOS EUROKA/FACTORY 2 nd Working Group Meeting, presented "A Tabu Search Algorithm For Cell Formation Problem", Moscow, Russia.
June 1995	National Congress on IE/OR, presented "Analysis of Production/Inventory Systems Under Multiplicative Form of Forecast Evolution", Ankara, Turkey.
June 1993	National Congress on IE/OR, presented "Modeling a Solid Waste Management System as an Inventory Problem", Istanbul, Turkey.
Languages Spoken	
English Taulaide	

English, Turkish