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01/14/2026

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RESEARCH AREAS

Operations Research/Management Science

TEACHING INTERESTS

Business Analytics
Operations Management
Operations Research

DEGREES

Degree	Institution	Discipline	Year
Ph.D.	Grenoble Institute of Technology (Grenoble INP), Grenoble, France	Industrial Engineering	2012
M.Sc.	Grenoble Institute of Technology (Grenoble INP), Grenoble, France	Industrial Engineering	2008
B.Sc.	Galatasaray University, Istanbul Turkey	Industrial Engineering	2007

EMPLOYMENT

From	To	Employer	Position
2023	present	Telfer School of Management	Associate Professor
2017	2023	Telfer School of Management	Assistant Prof.

From	To	Employer	Position
2014	2017	ESIEE Paris	Enseignant-Chercheur/formateur ¹
2012	2014	Ivey Business School - Western University	Post-doctoral fellow
2008	2012	Grenoble Institute of Technology (Grenoble INP)	Teaching assistant, lecturer

SCHOLARLY AND PROFESSIONAL ACADEMIC ACTIVITIES

Service to the Telfer School of Management

From	To	Activity
2022	present	Lead, Area of Strategic Impact in Health Systems Innovation and Management
2018	present	Course coordinator ADM2702 – Analytique de Gestion (in Eng. Business Analytics)
2021	2023	Section representative, Telfer School Council
2017	present	Session chair for multiple MSc Thesis defenses
2020	present	Section representative, Telfer Graduate Research Programs Committee
2018	2020	Section representative, Telfer Graduate Professional Programs Committee
2020	2020	Jury member, Telfer Thesis Competition
2020	2020	Committee member in two academic fraud committees

Service to the broader academic community

From	To	Activity
2016	present	Reviewer for scientific journals <ul style="list-style-type: none"> - Annals of Operations Research - Artificial Intelligence Review - Computers & Industrial Engineering - Computers & Operations Research - Energies - European Journal of Operational Research

¹ Lecturer-Researcher (teaching-heavy position)

From	To	Activity
		<ul style="list-style-type: none"> - Expert Systems with Applications - Healthcare Management Science - International Journal of Production Research - Journal of Combinatorial Optimization - Journal of Scheduling - Production and Operations Management - Omega - Operational Research - Sustainability - Theoretical Computer Science - Transportation Research Part B
2022	-	External specialist, Québec-FRQNT - Evaluation of funding applications
2021	-	Reviewer for funding applications (SSHRC, MITACS, NSERC)
2021	2021	Session Chair, Canadian Operational Research Society Annual Conference
2016	2017	Member, Innovative transport and inventory models: Study on Physical Internet for freight transport, Centre de Gestion Scientifique, Paris
2015	2017	Co-lead, apprenticeship program in Industrial Engineering at ESIEE Paris
2014	2015	Committee member, Efficacy - The R&D Institute for Urban Energy & Ecological Transition, Paris

COURSES TAUGHT

From	To	Course ²
2023	present	L'optimisation pour l'analytique de gestion (Optimisation for Business Analytics), 4 th year undergraduate, Telfer School of Management
2018	present	Analytique de Gestion (Business Analytics), 2 nd year undergraduate, Telfer School of Management
2017	2017	Gestion des Opérations (Operations Management), 3 rd year undergraduate, Telfer School of Management
2014	2017	Pilotage de la Chaîne Logistique (Supply Chain Management), 5 th year undergraduate ³ , ESIEE Paris
2014	2017	Planification et Ordonnancement (Production Planning and Scheduling), 4 th year undergraduate, ESIEE Paris

² English names of courses are given between parentheses.

³ Equivalent to the 1st year of M.Sc. in Canada.

2014	2017	Gestion de la Production (Production Management), 4 th year undergraduate, ESIEE Paris
2014	2017	Modélisation Stochastique (Stochastic Modeling), 4 th year undergraduate, ESIEE Paris
2014	2017	Gestion des Stocks (Inventory Management), 4 th year undergraduate, ESIEE Paris
2014	2017	Programmation en Java (Java Programming), 3 rd year undergraduate, ESIEE Paris

GRADUATE SUPERVISIONS

	Completed			In progress		
	S	CO-S	M	S	CO-S	M
Post-Doctoral	2	0	0	1	0	0
PHD Thesis	1	1	2	1	1	1
Master' Thesis	3	2	0	1	0	0
Master' Project	3	0	0	0	0	0

S=Supervisor; CO-S=Co-Supervisor; M=Supervisory Committee Member

Theses/Projects Supervised

From	To	Description
2024	present	Armaan Kaur (PhD Thesis, S)
2023	present	Sara Mesgari (PhD Thesis, M)
2022	present	Amin Vahedinia (Master's Thesis, S), Patient scheduling in ambulatory care units
2023	present	Ahmet Aktas (Postdoctoral fellow, S)
2021	2022	Mahsa Pouraliakbari-Mamaghani (Postdoctoral fellow, S)
2022	2023	Najat Bara (Postdoctoral fellow, S)
2019	2023	Amirhossein Moosavi (PhD Thesis, S), Essays on scheduling problems in healthcare
2018	present	Peyman Varshoei, (PhD Thesis, Co-S), Essays on Scheduling of Health Care resources & Patients
2021	2022	Nigar Sekercioglu, Master of Health Administration (Master's Project, S), Operations Research to Solve Kidney Allocation Problems: A Scoping Review
2020	2022	Sandra Blais-Amyot, M.Sc. in Health Systems (Master's Thesis, S), Addressing Delays and Earliness in Home Health Care Routing and Scheduling Problems

From	To	Description
2019	2021	Azita Jafarbigloo, M.Sc. in Health Systems (Master's Thesis, S), Optimization and Simulation of the Medical Device Sterilization in Hospitals
2018	2020	Sajjad Dehnoei, M.Sc. in Health Systems (Master's Thesis, Co-S), A Stochastic Optimization Approach for Staff Scheduling Decisions at Inpatient Clinics
2017	2020	Vusal Babashov, (PhD Thesis, M), Three Practical Problems in Healthcare Analytics
2018	2018	Raghavendra Bairy, M.Sc. in Electronic Business Technologies (Master's Project), Literature review on home health care problems, Supervisor
2018	2018	Shubhanshu Kumar Aarsay, M.Sc. in Electronic Business Technologies (Master's Project, S), A heuristic model for the routing of physicians for non-urgent cases
2017	2020	Lufeng Yuan (Master's Thesis, Co-S), A Heuristic Approach for the Home Health Care Scheduling and Routing Problem
2016	2019	Heidet, M., PhD (PhD Thesis, M), Délais de prise en charge des patients par les effecteurs mobiles du SAMU : intérêt d'un modèle numérique d'optimisation des trajets
2015	2016	Behiri, W., PhD (PhD Thesis, Co-S), PhD, Une approche couplée optimisation/simulation pour le dimensionnement de rames de trains mixant fret et voyageurs
2015	2016	Pocholo, C., Master's Thesis (Master's Thesis, S), M.Sc. Management-Information Systems, Continuous Integration and Delivery for Software Development Projects

EXTERNAL RESEARCH GRANTS

From - To	Source	Title	*	**	Amount
2019 - 2025	NSERC	Exact and Approximate Solution Methods for Batch Scheduling Problems (Principal investigator (PI))	R	C	\$169,000

* Purpose = C : Contract (R and D), E : Equipment Grant, R : Research Grant, T : Travel Grant, S : Support Award, P: Pedagogical Grant, O: Other, U : Unknown

** Type = C : Granting councils, G : Government, F : Foundations, I : UO Internal Funding, O : Other, U : Unknown

INTERNAL RESEARCH GRANTS

From - To	Source	Title	*	**	Amount
2021 - 2022	Telfer School of Management	Addressing Delays in Home Health Care Routing and Scheduling Problems (PI)	R	I	\$4,000

From - To	Source	Title	*	**	Amount
2020 - 2021	Telfer School of Management	Coupling optimization with simulation for medical device sterilization (PI)	R	I	\$4,000
2020 - 2021	Telfer School of Management	Staff scheduling in Long-Term Care facilities during the Covid19 pandemic (PI)	R	I	\$1,500
2018 - 2020	Telfer School of Management	A decision making model for a new city logistic system: Freight on transit (PI)	R	I	\$11,500
2018 - 2019	Telfer School of Management	Un système d'aide à la décision pour les visites à domicile des patients (PI)	R	I	\$10,000
2018-2018	Telfer School of Management	Approximate and exact solution methods for a batch scheduling problem (PI)	T	I	\$3,500

* Purpose = C : Contract (R and D), E : Equipment Grant, R : Research Grant, T : Travel Grant, S : Support Award, P: Pedagogical Grant, O: Other, U : Unknown

** Type = C : Granting councils, G : Government, F : Foundations, I : UO Internal Funding, O : Other, U : Unknown

PUBLICATIONS

CHAPTERS IN BOOKS	2
PAPERS IN REFEREED JOURNALS	15
PAPERS IN CONFERENCE PROCEEDINGS	11
ABSTRACTS	20
SPEAKING ENGAGEMENTS	4
WORKING PAPERS	3
OTHER PUBLICATIONS	1

Papers in Refereed Journals

Moosavi, A, **Ozturk, O.**, Patrick, J 2025,
 “Dynamic Distributed Ambulatory Care Scheduling”, Production and Operations Management, Volume 34, Issue 10, 2025, <https://doi.org/10.1177/10591478251331143>

Husseinzadeh Kashan, Ali, **Ozturk, O.**, 2025,
 “A new class of lower bounds for scheduling a batch processing machine to minimize makespan”, European Journal of Operational Research, Volume 327, Issue 3, 2025, Pages 754-775,

Vershoei, P., Patrick, J., **Ozturk, O.**, 2024,
 “Optimization of elective patient admissions during pandemics: case of COVID-19”, Journal of the Operational Research Society, <https://doi.org/10.1080/01605682.2024.2352461>

Babashov, V., Sauré, A., **Ozturk, O.**, Patrick, J., 2023
 “Setting Wait Time Targets in a Multi-priority Patient Setting: An Inverse Optimization Approach”, Production and Operations Management, 32:6, p1958-1974.

Kashan, A.H., **Ozturk, O.**, 2022

"Improved MILP Formulation Equipped with Valid inequalities for Scheduling a Batch Processing Machine with Non-identical Job Sizes", Omega, 112:102673.

Dehnoei, S., Saure, A., **Ozturk, O.**, Gardner, W., Pajera, K., Sheppard, R., Patrick, J., 2022

"A stochastic optimization approach for staff scheduling decisions at inpatient units", International Transactions in Operational Research

Moosavi, A., **Ozturk, O.**, Patrick, J., 2022

"Staff Scheduling for Residential Care Under Pandemic Conditions: The Case of COVID-19", Omega, 112:102671.

Ozturk, O., 2022

"When serial batch scheduling involves parallel batching decisions: A Branch and Price scheme", Computers and Operations Research, 137:105514.

Ozturk, O., 2020

"A truncated column generation algorithm for the parallel batch scheduling problem to minimize total flow time", European Journal of Operational Research, 286(2):432-443.

Ozturk, O., 2020

"A bi-criteria optimization model for medical device sterilization", Annals of Operations Research, 293(2), 809-831.

Ozturk, O., Patrick, J., 2018

"An optimization model for freight transport using urban rail transit", European Journal of Operational Research, 267(3):1110-1121.

Ozturk, O., Chu, C., 2018

"Exact and metaheuristic algorithms to minimize the total tardiness of cutting tool sharpening operations", Expert Systems with Applications, 95(1):224-235.

Ozturk, O., Begen, M. A., Zaric, G.S., 2017

"A branch and bound algorithm for scheduling unit size jobs on parallel batching machines to minimize makespan", International Journal of Production Research, 55(6):1815-1831.

Ozturk, O., Begen, M. A., Zaric, G.S., 2014

"A branch and bound based heuristic for makespan minimization of washing operations in hospital sterilization services", European Journal of Operational Research, 239(1):214 - 226.

Ozturk, O., Espinouse, M. L., Mascolo, M. D., & Gouin, A., 2012

"Makespan minimisation on parallel batch processing machines with non-identical job sizes and release dates", International Journal of Production Research, 50(20), 6022-6035

Papers in Refereed Journals (under review)

Moosavi, A., **Ozturk, O.**, Mahmood, R., Patrick, J.,

"Deep learning-assisted appointment scheduling under uncertainty", Inform Journal on Data Science, (2nd round)

Ozturk, O., Kashan, A.H., Akkan, C.,

"A heuristic decomposition scheme for scheduling of jobs on parallel batching machines", Journal of Heuristics, (1st round)

Working papers (Manuscript in progress, Finalized)

Pouraliakbari-Mamaghani, M., **Ozturk, O.**, 2022

"Timely Delivery of Urban Freight Using the Rail Transit System", N/A, (Manuscript).

Moosavi, A., Blais-Amyot, S., **Ozturk, O.**, Forster, A., 2022

"A decision support tool to construct scheduling templates in a medical day care unit: Evidence from a real case", Operations Research for Health Care, N/A, (Manuscript).

Pouraliakbari-Mamaghani, M., **Ozturk, O.**, 2022

"A two stage stochastic optimization model for disaster management", N/A, (Manuscript).

Papers in Conference Proceedings

Ozturk, O., Bara, N., 2024

"An Initial Framework for the Less-Than-Truck-Load Problem: Order Allocation and Planning" Proceedings, 10th International Conference on Control, Decision and Information Technologies - Codit'24, Valletta, Malta

Ozturk, O., 2021

"A column generation algorithm for the single machine parallel batch scheduling problem" Proceedings, 17th International Workshop on Project Management and Scheduling - PMS'20/21, Virtual Conference, April

Behiri, W., **Ozturk, O.**, Berraf, S., 2016

"Urban Freight by Rail: A MILP Modeling for Optimizing the Transport of Goods" Proceedings, International Conference of Information Systems, Logistics and Supply Chain - ILS'16, Bordeaux, June

Behiri, W., Berraf, S., **Ozturk, O.**, 2016

"Urban Freight by Rail: A coupled simulation-optimization approach for optimizing transport of goods" Proceedings, 11th International Conference on Modeling, Optimization and Simulation - MOSIM'16, Montréal, August

Behiri, W., Berraf, S., **Ozturk, O.**, 2016

"MILP modeling for transporting goods using urban rail passenger network" Proceedings, The 3rd International Conference on Green Supply Chain, London, July

Ozturk, O., 2016

"Experimental comparison of two branch-and-bound algorithms for $1 | p\text{-batch}, r_j, p_j, B < N | C_{\max}$ " Proceedings, 15th International Workshop on Project Management and Scheduling-PMS'16, Valencia, April

Ozturk, O., Di Mascolo, M., Espinouse, M-L., Gouin, A., 2012

"A semi-online algorithm for optimizing the pre-disinfection duration of medical devices in a hospital sterilization service" Proceedings, 9th International Conference of Modeling and Simulation - MOSIM'12, Bordeaux, June

Ozturk, O., Di Mascolo, M., Espinouse, M-L., Gouin, A., 2011

"Optimisation du chargement des laveurs dans un service de stérilisation" Proceedings, 4^{èmes} Journées Doctorales/Journées Nationales MACS, Marseille, June

Ozturk, O., Espinouse, M-L., Di Mascolo, M., Gouin, A., 2010

"Makespan minimization with job splitting on a single parallel batching machine for washing operations of hospital sterilization services" Proceedings, 12th International Workshop on Project Management and Scheduling-PMS'10, Tours - Loire Valley, April

Ozturk, O., Di Mascolo, M., Espinouse, M-L., Gouin, A., 2010

"Minimisation du temps moyen d'attente des dispositifs médicaux à l'étape de lavage d'un service de stérilisation hospitalière" Proceedings, 5^{ème} Conférence Francophone en Gestion et Ingénierie des Systèmes Hospitaliers, GISEH'10, Clermont-Ferrand, September

Ozturk, O., Di Mascolo, M., Espinouse, M-L., Gouin, A., 2010

"Minimizing the sum of job completion times for washing operations in hospital sterilization services" Proceedings, 8th International Conference of Modeling and Simulation - MOSIM'10, Hammamet, May

Ozturk, O., Espinouse, M-L., Di Mascolo, M., Gouin, A., 2010
 "Optimizing the makespan of washing operations of medical devices in hospital sterilization services"
Proceedings, IEEE Workshop on Health Care Management (WHCM), Venice, February

Book Chapters

Ozturk, O., Begen, M.A., Zaric, G.S., 2021
 "Impact of operational constraints on the implied value of life" In: Calisir F. (eds) Industrial Engineering in the Age of Business Intelligence, GJCIE conference 2021, Lecture Notes in Management and Industrial Engineering. Springer, Cham. (In press)

Ozturk, O., Begen, M.A., Zaric, G.S., 2020
 "Home Health Care Services Management: Districting Problem Revisited" In: Calisir F. (eds) Industrial Engineering in the Internet-of-Things World, GJCIE conference 2020, Lecture Notes in Management and Industrial Engineering. Springer, Cham.

Abstracts

Ozturk, O., 2024
 "Time index formulations for a parallel batch scheduling problem ", 2024 POMS International Conference Istanbul, Türkiye

Ozturk, O., Bara, N 2023
 "Proactive shipment consolidation: order allocation and planning based on the trade-off between purchasing costs and transportation costs ", 64th Annual CORS Conference, Montreal, May

Ozturk, O., 2022
 "An Exact Algorithm for Parallel Batch Scheduling on a Single Machine to Minimize Total Flow Time", 63rd Annual CORS Conference (joint with joint with INFORMS International), Vancouver, June

Blais-Amyot, S., **Ozturk, O.**, 2022
 "Addressing Uncertainties in Home Health Care Routing and Scheduling Problems", 63rd Annual CORS Conference (joint with joint with INFORMS International), Vancouver, June

Moosavi, A., **Ozturk, O.**, Patrick, J., 2022
 "Staff Scheduling for Residential Care Under Pandemic Conditions: The Case of Covid-19", 63rd Annual CORS Conference (joint with joint with INFORMS International), Vancouver, June

Varshoei, P., Patrick, J. **Ozturk, O.**, 2022
 "A Periodic Home Care Nurse Scheduling and Routing Problem with Time Windows and Skill Requirements", 63rd Annual CORS Conference (joint with joint with INFORMS International), Vancouver, June

Varshoei, P., Patrick, J. **Ozturk, O.**, 2022
 "Patient Admission Scheduling in Hospitals During Pandemics: Case of Covid-19 ", 63rd Annual CORS Conference (joint with joint with INFORMS International), Vancouver, June

Ozturk, O., 2021
 "Solving the time index formulation of a scheduling problem by column generation", 62nd Annual CORS Conference, June, (virtual conference)

Babashov, V., Sauré, A., **Ozturk, O.**, Patrick, J., 2021
 "Dynamic advance patient scheduling with short-term follow-up appointments", 62nd Annual CORS Conference, June, (virtual conference)

Babashov, V., Sauré, A., **Ozturk, O.**, Patrick, J., 2021

"Setting patient wait time targets in a multi-class clinical setting", 62nd Annual CORS Conference, June, (virtual conference)

Dehnoei, S., Sauré, A., **Ozturk, O.**, Patrick, J., 2021

"A stochastic optimization approach for staff scheduling decisions at inpatient clinics", 62nd Annual CORS Conference, June, (virtual conference)

Varshoei, P., Patrick, J. **Ozturk, O.**, 2021

"Scheduling of elective patients in hospitals during pandemics: The case of COVID-19", 62nd Annual CORS Conference, June, (virtual conference)

Babashov, V., Sauré, A., **Ozturk, O.**, Patrick, J., 2019

"Setting Wait Time Targets in a Multi-Priority Patient Setting: An Inverse Optimization Approach ", INFORMS Annual Meeting, Seattle, WA, October

Ozturk, O., 2019

"Generating a Partial Approximate Pareto set for makespan and flow time minimization", 25th International Conference on Multiple Criteria Decision Making (MCDM2019), Istanbul, June

Ozturk, O., 2018

"Approximate and Exact Solution Methods for a Batch Scheduling Problem", 60th Annual CORS Conference, Halifax, NS, June

Behiri, W., **Ozturk, O.**, Berraf, S., 2016

"Une approche couplée optimisation/simulation pour le chargement de marchandises dans le transport par rail", 17ème congrès de la société Française de Recherche Opérationnelle et d'Aide à la Décision (ROADEF'2016), Compiègne , February

Ozturk, O., Begen, M.A., Zaric, G.S., 2015

"Minimizing the total tardiness of tool sharpening operations in a production plant", 16ème congrès de la société Française de Recherche Opérationnelle et d'Aide à la Décision (ROADEF'2015), Marseille, February

Ozturk, O., Begen, M. A., Zaric, G.S., 2014

"Design and Scheduling of Home Health Care Services", INFORMS Annual Meeting, San Francisco, November

Ozturk, O., Espinouse, M. L., Mascolo, M. D., Gouin, A., 2012

"Un algorithme semi-online pour le problème d'ordonnancement par batch avec des tâches de dates de disponibilité différentes et de tailles fortement divisibles", 13ème congrès annuel de la Société Française de Recherche Opérationnelle et d'Aide à la Décision (ROADEF'2012), Angers, February

Ozturk, O., Espinouse, M. L., Mascolo, M. D., Gouin, A., 2011

"An Online Algorithm for minimizing the Pre-disinfection Excess Time of Medical Devices in Hospital Sterilization Services", 12ème congrès annuel de la Société Française de Recherche Opérationnelle et d'Aide à la Décision (ROADEF'2011), Saint-Etienne, March

Ozturk, O., Espinouse, M. L., Mascolo, M. D., Gouin, A., 2009

"A mixed integer linear programming framework for optimizing the makespan of washing operations in hospital sterilization services", International Conference on Operational Research Applied to Health Services, ORAHS'09, Leuven, July

Ozturk, O., Espinouse, M. L., Gulgun, A., 2009

"Minimisation des croisements de flux dans une plateforme de crossdocking", 10ème congrès annuel de la Société Française de Recherche Opérationnelle et d'Aide à la Décision (ROADEF'2009), Nancy, February

Invited talks

Ozturk, O., 2016

“A demonstration of teaching operations research to undergraduate business school students”, EDHEC Business School, June

Ozturk, O., 2015

“A decision making tool for freight transport with commuter rail in Paris”, Toulouse Business School, April

Ozturk, O., 2014

“An exact algorithm for scheduling unit size jobs on parallel batching machines to minimize makespan”, Ecole Nationale des Ponts et Chaussées, CERMICS Lab, Champs-sur-Marne, September

Ozturk, O., 2014

“Exact and approximate solution methods for parallel batch scheduling problems”, Ozyegin University (Faculty of Business), İstanbul, April

Other Publications

Articles in Magazines

Ozturk, O., 2019

“Freight on Transit as a new concept for city logistics”, Routes et Transports Magazine, 47(2)

Broadcast Interviews

Ozturk, O., 2018

“LRT can ship more than people, prof says”, Ottawa Morning with Robyn Bresnahan, CBC Radio One, Hallie Cotnam, February

Ozturk, O., 2018

“Use of light rail for freight transport”, The Rick Gibbons Show, 1310 News, February