

## Mohammad Delasay

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**Profile Links** [Personal webpage link](#), [Google Scholar link](#), [LinkedIn link](#)

**Academic Positions**

Assistant Professor of Operations Management Stony Brook University College of Business	Aug. 2017-Present
Visiting Assistant Professor of Operations Management Carnegie Mellon University Tepper School of Business	Sep. 2014-Jul. 2017
Sessional Faculty Grant MacEwan University School of Business, Edmonton, Canada	Jan. 2011-May 2014

**Education**

Ph.D. in Operations Management, University of Alberta School of Business	2014
Visiting Pre-doctoral Fellow, Northwestern University Kellogg School of Management	Summer 2014
M.Sc. in Industrial Engineering, University of Tehran	2006
B.Sc. in Industrial Engineering, Azad University of Tehran	2003

**Refereed Journal Publications**

Singh SP, M Delasay, AA Scheller-Wolf. 2022. Real-time delay announcement under competition. *Production and Operations Management* (forthcoming).

- IBM Best Student Paper Award Competition finalist, INFORMS 2016 (student: SP Singh)

Delasay M, A Jain, S. Kumar. 2022. Impacts of the COVID-19 pandemic on grocery retail operations: An analytical model. *Production and Operations Management* 31(5) 2237–2255.

Kang K, S Doroudi, M Delasay, A Wicheham. 2022. A queueing-theoretic framework for evaluating transmission risks in service facilities during a pandemic. *Production and Operations Management* (forthcoming).

- POMS College of Humanitarian Operations and Crisis Management (HOCCM) Best Paper Award, POMS 2022

Sasanuma K, M Delasay, C Pitocco, T Sexton, AA Scheller-Wolf. 2022. A marginal analysis framework to incorporate the externality effect of ordering perishables. *Operations Research Perspectives* (forthcoming).

Agnihotri S, L Cui, M Delasay, B Rajan. 2020. The value of mHealth for managing chronic conditions. *Health Care Management Science* 23(2) 185–202.

Somashekar G, M Delasay, A Gandhi. 2019. Tighter Lyapunov truncation for multi-dimensional continuous-time Markov chains with known moments. *Performance Evaluation Review* 47(2) 33–35.

Delasay M, A Ingolfsson, B Kolfal, K Schultz. 2019. Load effect on service times. *European Journal of Operational Research* 279(3) 673–686.

Delasay, M., A. Ingolfsson, B. Kolfal. 2016. Modeling load and overwork effects in queueing systems with adaptive service rates. *Operations Research* 64(4) 867–885.

- Canadian Operational Research Society (CORS) Best Student Paper Award finalist, 2014.

Delasay M, B Kolfal, A Ingolfsson. 2012. Maximizing throughput in finite source parallel queue systems. *European Journal of Operational Research* 217(3) 554–559.

**Refereed  
Conference  
Proceedings**

Somashekar G, M Delasay, A Gandhi. 2022. Truncating multi-dimensional Markov chains with accuracy guarantee. *Proceedings of IEEE 30<sup>th</sup> International Symposium on Modeling, Analysis, and Simulation of Computer and Telecommunication Systems (MASCOTS)* (forthcoming).

Votke S, J Abdul Jaleel, A Suresh, M Delasay, S Doroudi, A Gandhi. 2019. Optimal Markovian dynamic control of interference-prone server farms. *Proceedings of IEEE 27<sup>th</sup> International Symposium on Modeling, Analysis, and Simulation of Computer and Telecommunication Systems (MASCOTS)* 295–308.

Rabbani M, M Delasay, A Vazifeh. 2005. Projects evaluation and selection for investment using integrated DEA and AHP approaches. *Proceedings of the 35<sup>th</sup> International Conference on Computers and Industrial Engineering* 1597–1602.

**Book  
Chapters**

Delasay M, A Ingolfsson, K Schultz. 2016. Inventory is people: How load affects emergency response times. In *Cross-Functional Inventory Research* 21–50. S Gavirneni (Ed.). World Scientific.

Rabbani M, NM Zadeh, M Delasay, AH Gharegozli. 2007. An integrated approach for fuzzy project evaluation considering monetary and non-monetary criteria. In *Key Factors for Successful Logistics: Services, Transportation Concepts, IT and Management Tools* 97–110. T. Blecker, W. Kersten, C. Herstatt (Eds.). Erich Schmidt Verlag.

**Under  
Revision/  
Under Review  
Manuscripts**

Kang K, S Doroudi, M Delasay. Designing efficient omnichannel services. Under review at *Production and Operations Management*.

- Highlighted in the University of Minnesota 2019 Industrial and Systems Engineering magazine

Link: <https://cse.umn.edu/college/feature-stories/optimizing-your-morning-coffee>

Abdul Jaleel, J, M Delasay, S Doroudi. Scalable load balancing in the presence of interference-prone servers. Under review at *Stochastic Models*.

**Working  
Papers/Work-  
in-Progress**

Delasay M, M Akan. Optimal design of load balancing and differentiation tasks in tandem queue services. *Working paper*.

Delasay M, S Tayur, S Akshat. Conditions of Participation: Inducing Organ Discards and Patient Deaths on Transplant Waiting Lists? *Working paper*.

Delasay M, A Ingolfsson, A Rastpour. Evaluating capacity planning methods for loss systems: Application to emergency medical services. *Work-in-progress*.

Aydemir M, M Delasay, SP Singh, M Akan. Analysis and comparison of two-sided queues with different levels of delay information. *Work-in-progress*.

Delasay M, Z Dehdari. Staffing service systems with cyclic arrivals and state-dependent service rates. *Work-in-progress*.

M Hosseinabadi, A Ingolfsson, M Delasay, K Schultz. Effect of workload on EMT scene time and transport decision. *Work-in-progress*.

**Honors  
and Awards**

Stony Brook Trustees Faculty Award, 2022 (\$20000)

UUP Individual Development Award, 2022 (\$2000)

POMS College of Humanitarian Operations and Crisis Management (HOCM) Best Paper Award for “A Queueing-Theoretic Framework for Evaluating Transmission Risks in Service Facilities During a Pandemic,” POMS 32<sup>nd</sup> Annual Conference 2022

Most Valuable Professor Award, Stony Brook University, Dec. 2019

Recognized for excellence in teaching, Carnegie Mellon University Tepper School of Business, Spring and fall 2015 and spring 2016

IBM Service Science Best Student Paper Award finalist for “Evaluating the first-mover’s advantage in announcing real-time delay information,” INFORMS Annual Meeting 2016

Student Paper Competition finalist for “Modeling load and overwork effects in queueing systems with adaptive servers,” CORS Annual Conference 2014

Best paper presentations for:

Load effect on service times. Alberta Research Conference on Operations, Apr. 2013, Edmonton, Canada

Modeling load and overwork effects in queueing systems with adaptive service rates. Alberta Research Conference on Operations, May 2012, Edmonton, Canada

Maximizing throughput in finite source parallel queue systems. Business Research Conference, Oct. 2010, Edmonton, Canada

Funded by NSERC CREATE program in Healthcare Operations and Information Management, 2012-2014 (\$21,000 per annum)

School of Business General & Ph.D. Awards, University of Alberta, 2009-2012 (\$32,000 per annum)

**TEACHING**

Stony Brook University College of Business

*Supply Chain Management & Analytics*, MBA Last taught: Fall 2021  
Last rating: 4.83/5

*Supply Chain Management*, Undergraduate Last taught: Fall 2021  
Last rating: 4.83/5

*Operations Management*, MBA Last taught: Summer 2021  
Last rating: 4.71/5

*Operations Management*, Undergraduate Last taught: Spring 2020  
Last rating: 4.9/5

Carnegie Mellon University Tepper School of Business

*Operations Management*, Undergraduate Last taught: Spring 2017  
Last rating: 4.5/5

*Stochastic Processes and Simulation* Last taught: Spring 2017  
Last rating: 4.9/5

University of Alberta School of Business, Edmonton, Canada

*Decision Support Systems*, Undergraduate and MBA Last taught: Fall 2011  
Last rating: 4.1/5

*Data Analysis and Decision Making*, MBA, Lab instructor Last taught: Fall 2013

Grant MacEwan University School of Business, Edmonton, Canada

*Project Management*, Undergraduate Last taught: Spring 2012  
Last rating: 4.7/5

<i>Probability and Statistics I</i> , Undergraduate Last rating: 4.6/5	Last taught: Spring 2013
<i>Probability and Statistics II</i> , Undergraduate Last rating: 4/5	Last taught: Spring 2011
<i>Project Management</i> (online), Undergraduate Last rating: 4.6/5	Last taught: Spring 2014
<i>Probability and Statistics I</i> (online) Undergraduate Last rating: 4.1/5	Last taught: Spring 2011

ACADEMIC  
SERVICES

A Special Issue Associate Editor for *Operations Research*

Reviewed for *Management Science, Manufacturing & Service Operations Management, Production and Operations Management, European Journal of Operational Research, Queueing Systems, Health Care Management Science, Stochastic Systems, Computers and Industrial Engineering, Naval Research Logistics, IIEE Transactions, Plos One, Flexible Services and Manufacturing Journal, Journal of Quantitative Analysis of Sports, Journal of the Operations Research Society of India, and International Journal of Logistics*. ([Publons link](#))

Ph.D. advisory committee member:

- Zhila Dehdari Ebrahimi (current Ph.D. student), North Dakota State University College of Business
- Gagan Somashekar (current Ph.D. student), Stony Brook University Department of Computer Science
- Kang Kang (current Ph.D. student), University of Minnesota Industrial and Systems Engineering Department
- Scott Votke (current Ph.D. student), Stony Brook University Applied Math Department
- Mehmet Berat Aydemir (former Ph.D. student), Carnegie Mellon University Tepper School of Business, 2021
- Siddharth Singh (former Ph.D. student), Carnegie Mellon University Tepper School of Business, 2018

Conference session chair:

- COVID-19 Research, INFORMS Healthcare Conference, Virtual, Jul. 2021
- Design and Analysis of Modern Queueing Systems, CORS Annual Conference, Virtual, Jun. 2021
- Joint session MSOM/APS: Design and Analysis of Modern Queueing Systems, INFORMS 2020 Annual Meeting, Virtual, Nov. 2020 (co-chair with Sherwin Doroudi)
- Joint session MSOM/APS: Design and Analysis of Emerging Service Systems, INFORMS 2018 Annual Meeting, Phoenix, Nov. 2018 (co-chair with Sherwin Doroudi)

Faculty advisor for the Tepper School of Business MBA Team, Deloitte MBA Global Supply Chain Case Competition, Feb. 2015

Reviewer for INFORMS Behavioral Operations Management Section Best Working Paper Award, INFORMS Annual Meeting, 2014 and 2105

Judge, Deloitte's 2<sup>nd</sup> Annual MBA Supply Chain Challenge, Carnegie Mellon University Tepper School of Business, Jan. 2015

Alberta Research Conference on Operations, Organizing Committee, 2013

COLLEGE OF  
BUSINESS  
SERVICES

A member of the Search Committee for the Strategy and Entrepreneurship Faculty Position, Stony Brook University College of Business, Since Sep. 2022

The Chair of the Search Committee for the OM Faculty Position, Stony Brook University College of Business, Dec. 2021 - Mar. 2022

Operations and Analytics Speaker Series Organizer, Stony Brook University College of Business, Since Sep. 2019

Course coordinator for Operations Management (BUS 346), Stony Brook University College of Business, Since spring 2019

Developed the new course "BUS 371/MBA 544-Supply Chain Analytics" and offered it for the first time in Fall 2019

A faculty member of the Center for Entrepreneurial Finance, Stony Brook University College of Business, Since Jan. 2020

Involved in the COVID-19 task force, hosting virtual office hours in operations and supply chain, and working with students for the joint project with Stony Brook Small Business Development Center, 2020

The Chair of the Search Committee for the SUNY Korea OM Faculty Position, Stony Brook University College of Business, Dec. 2019 - Mar. 2020

A member of the Scholarship Committee, Stony Brook University College of Business, Since Nov. 2019

A member of the Strategic Planning Committee, Stony Brook University College of Business, Since 2018

A member of the Assurance of Learning (AOL) Committee, Stony Brook University College of Business, Since May 2021

INVITED  
SEMINARS AT  
ACADEMIC  
INSTITUTIONS

Sharif University of Technology Industrial Engineering Department, Tehran, Iran Jun. 2018

University of Calgary Haskyane School of Business, Calgary, Canada Feb. 2018

University of Alberta School of Business, Edmonton, Alberta Feb. 2018

University of Ontario Institute of Technology Faculty of Business and Information Technology, Oshawa, Canada Apr. 2017

Ryerson University Department of Mechanical and Industrial Engineering, Toronto, Canada Apr. 2017

Binghamton University School of Management Apr. 2017

Stony Brook University College of Business Mar. 2017

Virginia Commonwealth University School of Allied Health Professions Mar. 2017

University of Minnesota School of Public Health Mar. 2017

California State University (Northridge) David Nazarian College of Business and Economics Feb. 2017

West Virginia University College of Business and Economics Feb. 2017

University of Pittsburgh Department of Industrial Engineering Feb. 2017

	Carnegie Mellon University School of Computer Science	Nov. 2016
	Carnegie Mellon University Tepper School of Business	Feb. 2015
	Carnegie Mellon University School of Computer Science	Nov. 2014
	Carnegie Mellon University Tepper School of Business	Jun. 2014
	Northwestern University Kellogg School of Management	Jun. 2014
SELECTED CONFERENCE PRESENTATIONS	Impacts of the COVID-19 Pandemic on Grocery Retail Operations: An Analytical Model <i>DSI Annual Conference</i> , Virtual	Nov. 2021
	Analysis and comparison of two-sided queues with different levels of delay information <i>INFORMS Annual Meeting</i> , Virtual	Oct. 2021
	<i>CORS Annual Conference</i> , Virtual	Jun. 2021
	Evaluating capacity planning methods for loss systems: Application to emergency medical services. <i>INFORMS Annual Meeting</i> , Virtual	Nov. 2020
	<i>CanQueue Conference</i> , Toronto, Canada	Aug. 2019
	<i>POMS Annual Conference</i> , Washington, D.C. (invited)	May 2019
	<i>INFORMS Annual Meeting</i> , Phoenix, AZ (invited)	Nov. 2018
	Conditions of Participation effect on organ transplant centers' performance <i>INFORMS Annual Meeting</i> , Seattle, WA (invited)	Oct. 2019
	<i>INFORMS Annual Meeting</i> , Phoenix, AZ (invited)	Nov. 2018
	<i>POMS Annual Conference</i> , Houston, TX	May 2018
	<i>INFORMS Annual Meeting</i> , Nashville, TN	Nov. 2016
	Inventory is people: How load affects service times in emergency response <i>POMS Annual Conference</i> , Houston, TX (invited)	May 2018
	<i>INFORMS</i> , Philadelphia, PA (invited)	Nov. 2015
	<i>INFORMS Healthcare</i> , Nashville, TN (invited)	Jul. 2015
	Optimal design of tandem queues with diagnostic tasks <i>INFORMS</i> , Philadelphia, PA (invited)	Nov. 2015
	Modeling load and overwork effects in queueing systems with adaptive service rates <i>CORS Annual Conference</i> , Ottawa, Canada	May 2014
	- Best student paper award finalist <i>INFORMS Healthcare</i> , Chicago, IL	Jun. 2013
	<i>CORS Annual Conference</i> , Vancouver, Canada	May 2013
	<i>INFORMS Annual Meeting</i> , Phoenix, AZ	Oct. 2012
	Load effect on service times <i>Alberta Research Conference on Operations</i> , Edmonton, Canada	Apr. 2013
	- Best paper presentation	
	Maximizing throughput in finite source parallel queue systems <i>Business Research Conference</i> , Edmonton, Canada	Oct. 2010
	- Best paper presentation <i>CORS Annual Conference</i> , Edmonton, Canada	May 2010