

# Ramandeep S. Randhawa

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## Contact

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## Research Interests

Service operations, revenue management, operations management, stochastic models, flexibility in service and retail systems, deep learning, text analytics.

## Education

- **Stanford University, CA, USA**
  - Ph.D., *Business - Operations, Information, and Technology*, August 2006
  - M.S., *Statistics*, June 2005
- **Indian Institute of Technology Delhi, New Delhi, India**
  - B.Tech., *Manufacturing Science and Engineering*, May 2001, *President's Gold Medalist*

## Academic Positions

<i>Associate Professor</i>	Apr 2012– Current
<i>Assistant Professor</i>	Jun 2009 – Apr 2012
Marshall School of Business University of Southern California	Los Angeles, CA, USA
<i>Assistant Professor</i>	Aug 2006 – May 2009
McCombs School of Business The University of Texas at Austin	Austin, TX, USA

## Peer-Reviewed Journal Publications

1. H. Nazerzadeh and R. S. Randhawa, "Asymptotic Optimality of Two Service Grades for Customer Differentiation in Queueing Systems." Accepted by *Production and Operations Management*
2. C. Corona and R. S. Randhawa, "The Value of Confession: Admitting Mistakes to Build Reputation." Accepted by *The Accounting Review*.
3. J. Kim and R. S. Randhawa, "The Value of Dynamic Pricing in Large Queueing Systems," Accepted by *Operations Research*.
4. J. Kim, R. S. Randhawa, and A. R. Ward, "Dynamic Scheduling in a Many-Server Multi-Class System: The Role of Customer Impatience in Large Systems," Accepted by *Manufacturing and Service Operations Management*.
5. R. S. Randhawa, "The Optimality Gap of Asymptotically-derived Prescriptions with Applications to Queueing Systems," *Queueing Systems: Theory and Applications*, vol. 83, 131-155, 2016.
6. A. Bassamboo and R. S. Randhawa, "Using Estimated Patience Levels to Optimally Schedule Customers," *Management Science*, vol. 62, no. 7, 2129-2147, 2016.

7. M. Haviv and R. S. Randhawa, "Pricing in Queues without Demand Information," *Manufacturing and Service Operations Management*, vol. 16, no. 3, 401-411, 2014.
8. S. Gilbert, R. S. Randhawa, H. Sun, "Optimal Per-Use Rentals and Sales of Durable Products and Their Distinct Roles in Price Discrimination." *Production and Operations Management*, vol. 23, no. 3, 393-404, 2014.
9. A. Bassamboo, L. Y. Chu, and R. S. Randhawa, "Designing Flexible Systems Using a New Notion of Supermodularity." *Operations Research Letters*, vol. 41, no. 1, 107-111, 2013.
10. R. S. Randhawa, "Accuracy of Fluid Approximations for Queueing Systems with Congestion-Sensitive Demand and Implications for Capacity Sizing." *Operations Research Letters*, vol. 41, no. 1, 27-31, 2013.
11. A. Bassamboo, R. S. Randhawa, and J. Van Mieghem, "A Little Flexibility is All You Need: On the Value of Flexible Resources in Queueing Systems." *Operations Research*, vol. 60, no. 6, 1423-1435, 2012.
12. A. Bassamboo, R. S. Randhawa, and A. Zeevi, "Capacity Sizing under Parameter Uncertainty: Safety Staffing Principles Revisited." *Management Science*, vol. 56, no. 10, 1668-1686, 2010.
13. A. Bassamboo and R. S. Randhawa, "On the Accuracy of Fluid Models for Capacity Sizing in Queueing Systems with Impatient Customers." *Operations Research*, vol. 58, no. 5, 1398-1413, 2010. Third place, 2010 INFORMS JFIG Competition.
14. A. Bassamboo, R. S. Randhawa, and J. Van Mieghem, "Optimal Flexibility Configurations in Newsvendor Networks: Going beyond Chaining and Pairing." *Management Science*, vol. 56, no. 8, 1285-1303, 2010.
15. C. Corona and R. S. Randhawa, "The Auditors Slippery Slope: An Analysis of Reputational Incentives." *Management Science*, vol. 56, no. 6, 924-937, 2010.
16. S. Kumar and R. S. Randhawa, "Exploiting Market Size in Service Systems." *Manufacturing and Service Operations Management*, vol. 12, no. 3, 511-526, 2010.
17. A. Bassamboo, S. Kumar, and R. S. Randhawa, "Dynamics of New Product Introduction in Closed Rental Systems." *Operations Research*, vol. 57, no. 6, pp. 1347-1359, 2009.
18. R. S. Randhawa and S. Kumar, "Multi-Server Loss Systems with Subscribers." *Mathematics of Operations Research*, vol. 34, no. 1, pp. 142-179, 2009.
19. R. S. Randhawa and S. Kumar, "Usage Restriction and Subscription Services: Operational Benefits with Rational Users." *Manufacturing and Service Operations Management*, vol. 10, no. 3, pp. 429-447, 2008.
20. R. S. Randhawa and S. Juneja, "Combining Importance Sampling and Temporal Difference Control Variates to Simulate Markov Chains," *ACM TOMACS*, vol. 14, no. 1, pp. 1-30, 2004.

#### **Peer-Reviewed Conference Proceedings**

21. R. S. Randhawa, A. Modi, P. Jain, and P. Warier, "Improving Boundary Classification for Brain Tumor Segmentation and Longitudinal Disease Progression," In: Crimi A., Menze B., Maier O., Reyes M., Winzeck S., Handels H. (eds) *Brainlesion: Glioma, Multiple Sclerosis, Stroke and Traumatic Brain Injuries. BrainLes 2016. Lecture Notes in Computer Science*, vol. 10154. Springer, 2016.
22. R. Garg, R. S. Randhawa, H. Saran and M. Singh, "A SLA Framework for QoS Provisioning and Dynamic Capacity Allocation," *Proceedings of Tenth IEEE International Workshop on Quality of Service, (IWQoS 2002)*, 129-137, Miami, May 2002.
23. R. S. Randhawa and S. Juneja, "Simulating Rare Events by Combining Temporal Difference Methods and Importance Sampling," *Proceedings of ReSim/COP 2002*, Madrid, Spain, April 2002.

### **Working Papers**

24. N. Golrezaei, H. Nazerzadeh and R. S. Randhawa, "Dynamic Pricing for Heterogeneous Time-Sensitive Customers." Under review in *Manufacturing and Service Operations Management*.
25. R. S. Randhawa, P. Jain, and G. Madan, "Topic Modeling Using Distributed Word Embeddings," arxiv 2016.

### **Invited Conference Proceedings**

1. R. S. Randhawa and S. Kumar, "Stocking and Pricing Reusable Products for Subscribers," *Proceedings of the Allerton Conference, 2004*.

### **Honors and Awards**

- *Certificate of Teaching Excellence* in the Masters of Business Veterans program, 2015.
- *2013 Manufacturing and Service Operations Management Meritorious Service Award (Received Sep 2014)*
- *2013 Management Science Meritorious Service Award*
- *2013 and 2012 Operations Research Meritorious Service Awards*
- Recipient of *Deans Award for Research Excellence* at Marshall School of Business, 2012.
- Received third prize in the Junior Faculty Interest Group paper competition organized by INFORMS in 2010 for the paper "On the Accuracy of Fluid Models for Capacity Sizing in Queueing Systems with Impatient Customers."
- *2009 Manufacturing and Service Operations Management meritorious service award.*
- *President of India's Gold Medal* for obtaining the highest GPA among all the graduating undergraduate students (approximately 500) at the IIT Delhi.
- R. Vibhakar Memorial Commemorative Medal and Prize for best student in the Junior year at IIT Delhi.

### **Invited Seminars**

- Industrial and Systems Engineering, University of Minnesota, February 2017
- Graduate School of Business, Columbia University, December 2016
- Fuqua School of Business, Duke University, April 2016
- Kellogg School, Northwestern University, November 2014
- UC Berkeley Haas School of Business, October 2013
- Mostly OM Workshop, Tsinghua University, Beijing, May 2013
- INSEAD, Fontainebleau, November 2012
- University of Chicago Booth School of Business, November 2012
- London Business School, September 2012
- Tuck School of Management, Dartmouth College, November 2011
- Rady School of Management, UC San Diego, December 2010
- Tata Institute for Fundamental Research, India, January 2010
- Graduate School of Business Columbia University, February 2009
- Stanford University, Management Science and Engineering Department, February 2009
- UCLA Anderson School, January 2009
- Wharton School University of Pennsylvania, January 2009
- Marshall School, University of Southern California, January 2009
- Stern School New York University, October 2008

- Graduate School of Business, Stanford University, October 2008
- Kellogg School of Management, Northwestern University, October 2008
- Johnson School, Cornell University, March 2006
- Industrial and Systems Engineering Department Georgia Tech., March 2006
- McCombs School, UT Austin, February 2006
- Industrial Engineering and Operations Research Department UC Berkeley, February 2006
- University of Chicago Booth School of Business, February 2006
- Stern School, New York University, February 2006
- Marshall School, University of Southern California, February 2006

### **Service**

- Associate Editor for *Management Science* (July 2014 onwards)
- Associate Editor for *Operations Research* (Jan 2012 onwards)
- Guest Associate Editor for Naval Research Logistics (2016)
- Senior Editor for *Production and Operations Management* (2009-2015)
- *Co-Organizer of MSOM Service SIG Workshop 2015*
- *MSOM Service SIG Track Chair at INFORMS 2012.*
- Referee for *Management Science, Manufacturing and Service Operations Management, Operations Research, Production and Operations Management, QUESTA, ACM TOMACS, Annals of Applied Probability, INFORMS Journal of Computing, The Accounting Review.*
- **USC**
  - President, Marshall Faculty Council, 2017 – Current
  - Senator, USC Academic Senate, 2017-Current
  - Member, Marshall Faculty Council, 2016-Current
- **Dissertation Committees**
  - Jeunghyun Kim, USC Marshall, 2016
  - Dongyuan Zhan, USC Marshall, 2015
  - Guangwen Kong, USC Marshall, 2013
  - Kai Chen, USC Viterbi, 2013
  - Seung Beom Kim, USC Marshall, 2013