Chaithanya Bandi

Contact Information	E-mail: cbandi.eth@gmail.com	
Research Interests	Robust Optimization, Data-driven Optimization, Operations Management, Healthcare Operation Revenue Management, Risk Modeling	ns,
Academic Appointments	National University of Singapore, Singapore NUS Business School	
	Associate Professor of Analytics and Operations 20	20
	Northwestern University, Evanstin, IL	
	Kellogg School of Management	
	Associate Professor of Operations 20 Assistant Professor of Operations 20	17
	Assistant Folessor of Operations20Donald P. Jacobs Scholar20	13
Education	Massachusetts Institute of Technology, Cambridge, MA	
	Sloan School of Management – Operations Research Center	
	Ph.D in Operations Research 20	13
	Dissertation Title: Tractable stochastic analysis in high dimensions via robust optimization	
	Indian Institute of Technology, Chennai(Madras), Chennai, India	
	Department of Computer Science and Engineering	
	B.Tech in Computer Science and Engineering, Operations Research (Minor) 20	98
Funding Grants	 C. Bandi and Seyed Iravani. NSF award (#1826353) (\$439,918.0) Decision Flow Networks Effective Classification in Service Systems. 	for
	2. C.Bandi. PNNL Grant. No. 351306, NU: SP0043756 Robust Optimization of Complex Infrastr tural Networks with Applications to Power Grid.	uc-
PUBLICATIONS	 C. Bandi and Dimitris Bertsimas. Tractable stochastic analysis in high dimensions via rob optimization. Mathematical programming, 134(1):23–70, 2012. 	ust
	 C. Bandi, Dimitris Bertsimas, and Nataly Youssef. Robust queueing theory. Operations H search, 63(3):676–700, 2015. 	le-
	 C. Bandi and Dimitris Bertsimas. Optimal design for multi-item auctions: a robust optimizat approach. Mathematics of Operations Research, 39(4):1012–1038, 2014. 	ion
	 C. Bandi and Dimitris Bertsimas. Robust option pricing. European Journal of Operation Research, 239(3):842–853, 2014. 	ıal
	 C. Bandi, Dimitris Bertsimas, and Nataly Youssef. Robust Transient Analysis of Multi-ser Queueing Systems and Feedforward Networks. Queueing Systems, Volume 89, Issue 3–4, 351–413. 	ver pp
	 C. Bandi, Nikolaos Trichakis, and Phebe Vayanos. Robust wait time estimation in resour allocation systems with an application to kidney allocation, Management Science, Volu 65, Issue 1, pp 152–187. 	rce me
	 C. Bandi, Eojin Han, and Omid Nohadani. Sustainable Inventory with Robust Periodic-Aff Policies and Application to Medical Supply Chains, to appear in Management Scien 2018. 	ine ce ,
	 C. Bandi and Diwakar Gupta. Operating-room staffing and online scheduling, to appear M&SOM, 2018. 	in
	 Chaitanya Bandi, Dinesh Garg, Krishna Pal Singh Rathore, Sachin Garg, Krishna Prasad C trapura, and Sourangshu Bhattacharya. Dynamic pricing model for online advertising, Patent App. 12/683,658. 	hi- U S
	10 C Bandi and Ermin Wai Fairness considerations in network flow problems 2015 54th IPI	e e

10. C. Bandi and Ermin Wei. Fairness considerations in network flow problems. 2015 54th IEEE Conference on Decision and Control (CDC), pages 6909–6914. IEEE, 2015.

- 11. C. Bandi, Ermin Wei, and Yuanzhang Xiao. Efficiency of linear supply function bidding in electricity markets. 2015 49th Asilomar Conference on Signals, Systems and Computers, pages 689–692. IEEE, 2015.
- 12. Chaithanya Bandi, Krishnamurthy Dvijotham, David Morton and Haoxiang Yang. Robust Optimization for Electricity Generation, Accepted to appear in INFORMS Journal on Computing, 2018.

REVIEW

- ARTICLES UNDER 13. C. Bandi, Eojin Han and Omid Nohadani. On Finite Adaptability in Two-stage Distributionally Robust Optimization, **R&R in Management Science**, 2019.
 - 14. C. Bandi and Yam Huo. Robust Optimal Recommendations for Risk-aware Customers, R&R in Management Science, 2019.
 - 15. Chaithanya Bandi, Dimitris Bertsimas and Dongning Guo. Optimal Channel Coding via Robust Optimization, Minor Revision at IEEE Transactions in Information Theory, 2018.
 - 16. C. Bandi and Gar Goei Loke. Exploiting Hidden Convexity for Optimal Flow Control in Queueing Networks, **R&R** in Operations Research, 2019.
 - 17. C. Bandi and Alexej Proskynitopoulos. Robust Queue Inference Engine, R&R in Management Science, 2019.
 - 18. C. Bandi and Hojun Choi. Justice Delayed is Justice Denied: Optimizing the Flow Control at CARPLS legal help hotline, under review at M&SOM, 2018.
 - **19.** C. Bandi, Sunil Chopra and Sangho Shim. On the (near) Optimality of Extended Formulations for Multi-way Cut in Social Networks., Under Revision, 2019.
 - 20. C. Bandi, Toni Moreno, Donald Ngwe and Zhiji Xu. The Effect of Payment Choices on Online Retail: Evidence from the 2016 Indian Demonetization, R&R in Management Science, 2019.

IN PROGRESS

EXPERIENCE

- 21. C. Bandi, Shamal Lalvani and Yam Huo. Quantifying the Operational Cost of Blockchain via Robust Queueing Theory. - in collaboration with IBM HyperLedger Team
- **22.** C. Bandi and Yam Huo. Inequity aware Robust Dynamic Pricing in collaboration with Myntra (Walmart) DataScience Team
- 23. C. Bandi, Omar El Housni and Vineet Goyal. Performance of affine policies in multi-stage robust optimization.
- 24. C. Bandi, Jonathan Amar and Nikolaos Trichakis. Robust utility elicitation with product-driven adaptive questionnaire.
- 25. C. Bandi and Sivatheja Maguluri. Robust queueing approach to optimal control of fork-join and replication systems.
- 26. C. Bandi, Ejoin Han and Omid Nohadani. Uncovering Structure via Lifting: Generalized Policies for Multistage Robust Optimization.
- 27. C. Bandi and Sanjay Mehrotra. Regional Fairness in Kidney Allocation.
- 28. Chaithanya Bandi and Itai Gurvich. Characterizing global stability of queueing networks via robust optimization.
- 29. Chaithanya Bandi and Neha Sharma. Quantifying the Value of Centralization in Ridesharing Platforms.

Kellogg School Of Management TEACHING

Teaching Faculty

- Analytical Decision Modeling (OPNS 450) Full time MBA (Winter 2014, 2015, 2016)
- Analytical Decision Modeling (OPNSM 450) MSMS (Winter 2014, 2015, 2016)
- Analytical Decision Modeling (OPNSX 450) Executive MBA (Winter 2015)
- Robust Optimization: Theory and Applications (OPNS 522) Doctoral class (Fall 2016)

Massachusetts Institute of Technology

Teaching Assistant

- 15.761 Intro to Operations Management (Global Operations MBA Core)
- 15.060 Data, Models, and Decisions (MBA Core)
- 15.071 The Analytics Edge (MBA Elective)

2013 - present

2008 - present