

# **THE UNIVERSITY OF BRITISH COLUMBIA**

## *Curriculum Vitae Faculty Members*

Date: April 1, 2017

Initials: WTH

<b>1. SURNAME:</b> Huh	<b>FIRST NAME:</b> Woonghee
	<b>MIDDLE NAME(S):</b> Tim
<b>2. DEPARTMENT/SCHOOL:</b>	Operations and Logistics / Sauder School of Business
<b>3. FACULTY:</b>	Commerce and Business Administration
<b>4. PRESENT RANK:</b> Professor	<b>SINCE:</b> Jul 2015

### **5. POST-SECONDARY EDUCATION**

<b>University or Institution</b>	<b>Degree</b>	<b>Subject Area</b>	<b>Date</b>
Cornell University	Ph.D.	Operations Research	2003
Cornell University	Master of Science	Operations Research	2001
University of Waterloo	Master of Mathematics	Combinatorics & Optimization	1998
University of Waterloo	Bachelor of Arts	Sociology	1997
University of Waterloo	Bachelor of Mathematics (Double Honors)	Computer Science and Combinatorics & Optimization	1997

### **Title of Dissertation and Name of Supervisor**

Strategic Capacity Planning in the Semiconductor Industry; Robin O. Roundy

### **6. EMPLOYMENT RECORD**

*(a) non-UBC Employment*

<b>University, Company or Organization</b>	<b>Rank or Title</b>	<b>Dates</b>
Columbia University	Associate Professor	Jan 2009 - Jun 2009
Columbia University	Assistant Professor	Jul 2003 - Dec 2008
Intel Corporation, Aloha, OR	Information Technology Intern	May 2000 - Jul 2000
IBM Canada, Toronto, ON	Software Engineer	May 1996 - Aug 1996
Nortel Networks, Ottawa, ON	Software Developer	Jan 1995 - Apr 1995
Object Technology International, Ottawa, ON	Programmer	May 1994 - Aug 1994

THE UNIVERSITY OF BRITISH COLUMBIA  
Publications Record

Date: April 1, 2015      Initials: WTH

<b>SURNAME:</b> Huh	<b>FIRST NAME:</b> Woonghee
	<b>MIDDLE NAMES(S):</b> Tim

## **1. REFEREED PUBLICATIONS**

### *(a) Journals*

Sabouri, A., **Huh, W.T.**, Shechter, S.M, (forthcoming) Screening Strategies for Patients on the Kidney Transplant Waiting List. *Operations Research*. [Accepted March 2017]

Hong, Y., **Huh, W.T.**, Kang, C., (2017). Sourcing assemble-to-order inventories under supplier risk uncertainty. *Omega*, 66: 1-14.

**Huh, W.T.**, Janakiraman, G., Nagarajan, M. (2016). Capacitated Multi-Echelon Inventory Systems: Policies and Bounds. *Manufacturing & Service Operations Management*, 18(4): 570-584.

Kocaman, A. S., Abad, C., Troy, T.J. **Huh, W.T.**, Modi, V. (2016). A Stochastic Model for a Macroscale Hybrid Renewable Energy System. *Renewable and Sustainable Energy Reviews*, 54, 688-703.

**Huh, W.T.**, Li, H. (2015). Pricing under the Nested Attraction Model with a Multi-stage Choice Structure. *Operations Research*, 63(4): 840-850.

Sabouri, A., Shechter, S.M, **Huh, W.T.** (2015). Inspecting a Vital Component Needed upon Emergency. *Production and Operations Management*, 24(12): 1839-1851.

Kang, W., Kang, C., Hong, Y., **Huh, W.T.** (2015). Risk Propagation through a Platform: The Failure Risk Perspective on Platform Sharing. *IEEE Transactions on Engineering Management*, 62(3): 372-383.

Lee, H., **Huh, W.T.**, Sun, Y., Dance, C. (2015). Auctions in the Post-Change-Order Period. *Naval Research Logistics*, 62(3): 248-265.

Sheng, L., Zheng, H., Rong, Y., **Huh, W.T.** (2015). Flexible System Design: A Perspective from Service Levels. *Operations Research Letters*, 43(3): 219-225.

Kim, S., **Huh, W.T.**, Dasu, S. (2015). Pre-announced Posted Pricing Scheme: Existence and Uniqueness of Equilibrium Bidding Strategy. *Operations Research Letters*, 43(2): 151-160.

Bijvank, M., Bhulai, S., **Huh, W. T.** (2015). Parametric Replenishment Policies for Inventory Systems with Lost Sales and Fixed Order Cost. *European Journal of Operational Research*, 241(2): 381-390.

Bijvank, M., **Huh, W.T.**, Janakiraman, J., Kang, W. (2014). Robustness of Order-Up-To Policies in Lost-Sales Inventory Systems. *Operations Research*, 62(5): 1040-1047.

Geng, X., **Huh, W.T.**, Nagarajan, M. (2014). Sequential Resource Allocation with Constraints:

Two-Customer Case. *Operations Research Letters*, 42(1): 70-75.

Alp, O., **Huh, W.T.**, Tarkan, T. (2014). Inventory Control with Multiple Setup Costs. *Manufacturing & Service Operations Management*, 16(1): 89-103.

Li, H., Graves, S., **Huh, W.T.** (2014). Optimal Capacity Conversion for Product Transitions under High Service Requirements. *Manufacturing & Service Operations Management*, 16(1): 46-60.

**Huh, W.T.**, Rusmevichientong, P. (2014). Online Sequential Optimization with Biased Gradients: Theory and Applications to Censored Demand. *INFORMS Journal on Computing*, 26(1): 150-159.

**Huh, W.T.**, Lall, U. (2013). Optimal Crop Choice, Irrigation Allocation, and the Impact of Contract Farming. *Production and Operations Management*, 22(5):1126-11143.

**Huh, W.T.**, Park, K. (2013). Impact of Transfer Pricing Methods for Tax Purposes on Supply Chain Performance under Demand Uncertainty. *Naval Research Logistics*, 60(4): 269-293.

**Huh, W.T.**, Liu, N., Truong, V. (2013). Multiresource Allocation Scheduling in Dynamic Environments. *Manufacturing & Service Operations Management*, 15(2): 280-291.

Athanassoglou, S., Sheriff, G., Siegfried, T., **Huh, W.T.** (2012). Optimal Mechanisms for Heterogeneous Multi-Cell Aquifers. *Environmental and Resource Economics*, 52(2), 265-291.

Kang, C., Hong, Y., **Huh, W.T.** (2012). Platform Replacement Planning for Management of Product-family Obsolescence. *IIE Transactions*, 44(12), 1115-1131.

**Huh, W.T.**, Janakiraman, G. (2012). On the Optimal Policies for Inventory Systems with Batch Ordering. *Operations Research*, 60(4), 797-802.

Kocaman, A., **Huh, W.T.**, Modi, V. (2012). Initial Layout of Power Distribution Systems for Rural Electrification: A Heuristic Algorithm for Multilevel Network Design. *Applied Energy*, 96, 302-315.

Li, H., **Huh, W.T.** (2012). Optimal Pricing for a Short Life-Cycle Product when Customer Price-Sensitivity Varies Over Time. *Naval Research Logistics*, 59(7), 552-576.

**Huh, W.T.**, Athanassoglou, S., Lall, U. (2012). Contract Farming in a Developing Country with Possible Negeging: Can It work? *IIMB Management Review*, 24(4), 187-202.

Shechter, S.M., **Huh, W.T.**, Slofstra, A. (2012). Simultaneous Testing of Multicharacteristic Components. *Operations Research Letters*, 40(5), 411-415.

Li, H., **Huh, W.T.** (2011). Pricing Multiple Products with the Multinomial Logit and Nested Logit Models: Concavity and Implications. *Manufacturing & Service Operations Management*, 13(4), 549-563.

**Huh, W.T.**, Krishnamurthy, C., Weber, R. (2011). Concavity and Monotonicity Properties in a Groundwater Management Model. *Naval Research Logistics*, 58(7), 670-675.

**Huh, W.T.**, Levi, R., Rusmevichientong, P., Orlin, J. (2011). Adaptive Data-Driven Inventory Control with Censored Demand Based on Kaplan-Meier Estimator. *Operations Research*, 59(4), 929-941.

**Huh, W.T.**, Janakiraman, G., Muharremoglu, A., Sheopuri, A. (2011). Inventory Systems with a Generalized Cost Model. *Operations Research*, 59(4), 1040-1047.

- Huh, W.T.**, Janakiraman, G., Nagarajan, M. (2011). Average Cost Single-Stage Inventory Models: An Analysis Using a Vanishing Discount Approach. *Operations Research*, 59(1), 143-155.
- Huh, W.T.**, Janakiraman, G., Nagarajan, M. (2011). Capacitated Serial Inventory Systems: Sample Path and Stability Properties Under Base-Stock Policies. *Operations Research*, 58(4), 1017-1022.
- Huh, W.T.**, Kachani, S., Sadighian, A. (2010). A Two-Stage Multi-Period Negotiation Model with Reference Price Effect. *Journal of Revenue and Pricing Management*, 9(5), 443-475.
- Ayvaz, N., **Huh, W.T.** (2010). Allocation of Hospital Capacity to Multiple Types of Patients. *Journal of Revenue and Pricing Management*, 9(5), 386-398.
- Huh, W.T.**, Janakiraman, G. (2010). Base-Stock Policies in Capacitated Assembly Systems: Convexity Properties. *Naval Research Logistics*, 57(2), 244-251.
- Huh, W.T.**, Park, K. (2010). A Sequential Auction-Bargaining Procurement Model. *Naval Research Logistics*, 57(1), 13-32.
- Huh, W.T.**, Janakiraman, G. (2010). On the Structure of Serial Inventory Systems with Lost Sales. *Operations Research*, 58(2), 486-491.
- Kysar, J., Saito, Y., Oztop, M., Lee, D., **Huh, W.T.** (2010). Experimental Lower Bounds on Geometrically Necessary Dislocation Density. *International Journal of Plasticity*, 26(8), 1097-1123.
- Huh, W.T.**, Nagarajan, M. (2010). Linear Inflation Rules for the Random Yield Problem: Analysis and Computations. *Operations Research*, 58(1), 244-251.
- Zvoleff, A., Kocaman, A., **Huh, W.T.**, Modi, V. (2009). The Impact of Geography on Energy Infrastructure Costs. *Energy Policy*, 37(10), 4066-4078.
- Huh, W.T.**, Janakiraman, G., Muckstadt, J., Rusmevichientong, P. (2009). Asymptotic Optimality of Order-Up-To Policies in Lost Sales Inventory Systems. *Management Science*, 55(3), 404-420.
- Huh, W.T.**, Janakiraman, G., Muckstadt, J., Rusmevichientong, P. (2009). An Adaptive Algorithm for Finding the Optimal Base-Stock Policy in Lost Sales Inventory Systems with Censored Demand. *Mathematics of Operations Research*, 34(2), 397-416.
- Huh, W.T.**, Rusmevichientong, P. (2009). A Nonparametric Asymptotic Analysis of Inventory Planning with Censored Demand. *Mathematics of Operations Research*, 34(1), 103-123.
- Huh, W.T.**, Kachani, S., Sadighian, A. (2009). Optimal Pricing and Production Planning for Subscription-Based Products. A Combined Auction-Bargaining Procurement Model. *Production and Operations Management*, 19(1), 19-39.
- Huh, W.T.**, Janakiraman, G. (2008). Inventory Management with Auctions and Other Sales Channels: Optimality of (s, S) Policies. *Management Science*, 54(1), 139-150.
- Huh, W.T.**, Janakiraman, G. (2008). A Sample-Path Approach to the Optimality of Echelon Order-Up-To Policies in Serial Inventory Systems. *Operations Research Letters*, 36(5), 547-550.
- Huh, W.T.**, Janakiraman, G. (2008). (s, S) Optimality in Joint Inventory-Pricing Control: An Alternate Approach. *Operations Research*, 56(3), 783-790.
- Huh, W.T.**, Roundy, R., Cakanyildirim, M. (2006). A General Capacity Planning Model Under

Demand Uncertainty. *Naval Research Logistics*, 53(2), 137-150.

Gallego, G., **Huh, W.T.**, Kang, W., Phillips, R. (2006). Price Competition with the Attraction Demand Model: Existence of Unique Equilibrium and Its Stability. *Manufacturing & Service Operations Management*, 8(4), 359-375.

**Huh, W.T.**, Roundy, R. (2005). A Continuous-Time Strategic Capacity Planning Model. *Naval Research Logistics*, 52(4), 329-343.

Roundy, R., Zhang, F., Cakanyildirim, M., **Huh, W.T.** (2004). Capacity Expansion for Multi-Product, Multi-Machine Manufacturing Systems with Stochastic Demand. *IIE Transactions*, 36(1), 23-36.

**Huh, W.T.** (2004). Finding 2-Edge Connected Spanning Subgraphs. *Operations Research Letters*, 32(3), 212-216.

**Huh, W.T.**, Janakiraman, G., Jackson, P., Sawhney, N. (2003). Minimizing Flow Time in Cyclic Schedules for Identical Jobs with Acyclic Precedence: The Bottleneck Lowerbound. *Operations Research Letters*, 31(5), 366-374.

(b) *Conference Proceedings*

**Huh, W.T.** (2001). Software Process Improvement: Operations Perspective. *Proceedings of the Proceedings of the Portland International Conference on Management of Engineering and Technology, Portland, 2001.*

(c) *Other*

## **2. NON-REFEREED PUBLICATIONS**

(a) *Journals*

(b) *Conference Proceedings*

(c) *Other*

## **3. BOOKS**

(a) *Authored*

(b) *Edited*

(c) *Chapters*

#### **4. PATENTS**

#### **5. SPECIAL COPYRIGHTS**

#### **6. ARTISTIC WORKS, PERFORMANCES, DESIGNS**

#### **7. OTHER WORKS**

#### **8. WORK SUBMITTED (INCLUDING PUBLISHER AND DATE OF SUBMISSION)**

Jung, S., Park, K.S., **Huh, W.T.**, The Impact of Arm's Length Principle on a Supply Chain and Consumers: When a Rival is also a Customer. *Manufacturing & Service Operations Management* [Revision submitted]

#### **9. WORK IN PROGRESS (INCLUDING DEGREE OF COMPLETION)**

##### *(a) Completed Working Papers*

Bo, Y., Dawande, M., **Huh, W.T.**, Janakiraman, G., Nagarajan, M. Process Capacity: Exact Analysis and the Bottleneck Formula. *Manufacturing & Service Operations Management* [Revision requested]

Farahat, A., **Huh, W.T.**, Li, H. On the Relationship Between Quantity Pre-Commitment and Cournot Games. *Operations Research*. [Second Revision Requested]

McCormick, S., **Huh, W.T.**, Murota, K., Bolandnazer, M. A Note on "Order-Based Cost Optimization in Assemble-to-Order Systems". *Operations Research*. [Second Revision Requested]

**Huh, W.T.**, Oh, J. Hidden-City Travel and Its Impact on Airfare: The Case with Competing Airlines. *Management Science*. [Revision in preparation].

##### *(b) Other Works In Progress*

**Huh, W.T.**, Olvera-Cravioto, M., Ozer, O. *Joint Audit and Replenishment Decisions for an Inventory System with Unrecorded Demands*. (85%)

Sheng, L., **Huh, W.T.**, Nagarajan, M. A Dynamic Price-Only Contract: Exact and Asymptotic Results. (90%)