Curriculum Vita

Hairong Zhao

Education

2005	Ph.D. Computer Science, New Jersey Institute of Technology, Newark, NJ
1997	M.S. Computer Science, Beijing University of Posts & Telecommunications, Beijing, China
1994	B.S. Computer Science, Taiyuan University of Technology, China

Academic Appointments

2017 – Present	Professor of Computer Science, Department of Mathematics, Statistics and Computer Science, Purdue University Northwest
2010 – 2017	Associate Professor of Computer Science, Department of Mathematics, Statistics and Computer Science, Purdue University Northwest
2005 – 2010	Assistant Professor of Computer Science, Department of Mathematics, Computer Science and Statistics, Purdue University Calumet
2003 – 2005	Research Assistant, Department of Computer Science, New Jersey Institute of Technology
2000 – 2003	Teaching Assistant, Department of Computer Science, New Jersey Institute of Technology

Industrial Appointment

1997– 2000	Network Planning and Research Engineer, China Academy of Telecommunication Research, Ministry of Information Industry

Memberships in Academic, Professional and Scholarly Societies

2005 - present	Institute for Operations Research and the Management Sciences (INFORMS)
2005- present	Association for Computing Machinery (ACM)
2012 - present	Production and Operations Management Society (POMS)

Research Interest

Design and analysis of algorithms; Sequence and scheduling; Combinatorial optimization; Computational complexity

Peer Reviewed Journal Papers

1. Y. Huo and H. Zhao, "Two Machine Scheduling Subject to Arbitrary Machine Availability Constraints," Omega, 76, 128-136, 2018.

2. N. Hall, Y. Huo, B. Li, M. Pinedo, H. Zhao, In memoriam: Dr. Joseph Leung, Journal of

Scheduling 21(6): 579-580, 2018

3. A. Silaen, A. Afsar, H. Zhao, B. Wu, J. Trimble, D. Grenough, M. Wilke, L. Fabina, J. Mengel and C. Zhou, "Development of a Caster Scheduling Model for Process Optimization," Iron & Steel Technology magazine, December 2017.

4. Y. Huo and H. Zhao, "Total Completion Time Minimization on Multiple Machines Subject to Machine Availability and Makespan Constraints," European Journal of Operational Research, 243(2): 547-554, 2015.

5. Y. Huo, B. Reznichenko and H. Zhao, "Minimizing Total Weighted Completion Time with Unexpected Machine Unavailability," Journal of Scheduling, 17(2): 161-172, 2014.

6. B. Fu, Y. Huo and H. Zhao, " Scheduling of Production and Delivery with Production Window and Delivery Capacity Constraints," Theoretical Computer Science, 422: 39-51, 2012.

7. B. Fu, Y. Huo and H. Zhao, "Approximation Schemes for Parallel Machine Scheduling with Availability Constraints," Discrete Applied Math , 159: 1555-1565, 2011.

8. B. Fu, Y. Huo and H. Zhao, "Bicriteria Scheduling Concerned with Makespan and Total Completion Time Subject to Machine Availability Constraints," Theoretical Computer Science, 412:1081-1091, 2011.

9. B. Fu, Y. Huo and H. Zhao. Exponential Inapproximability and FPTAS for Scheduling with Availability Constraints. Theoretical Computer Science, 410: 2663-2674, 2009.

10. B. Fu, Y. Huo and H. Zhao. Makespan Minimization with Machine Availability constraints. Discrete Mathematics, Algorithms and Applications, 1(2), 141-151, 2009.

11. Y. Huo, H. Li and H. Zhao. Minimizing total completion time in two-machine flow shops with exact delays. Computers & Operations Research, 36(6): 2018-2030, 2009.

12. J. Y-T. Leung and H. Zhao. Scheduling Problems in Master-Slave Model, Annals of Operations Research, 159: 215-231, 2008.

13. H. Li and H. Zhao. Scheduling Coupled-Tasks on a Single Machine. International Journal of Information Technology and Intelligent Computing, Vol. 2, No. 2, 2007.

14. J. Y-T. Leung, H. Li and H. Zhao. Scheduling Two-Machine Flow Shops with Exact Delay. International Journal of Foundations of Computer Science, 18 (2), 341-360, 2007.

15. Huo, Y., Leung, J. Y-T. and Zhao, H., Complexity of Two Dual Criteria Scheduling Problems, Operations Research Letters, 35: 211-220, 2007.

16. Huo, Y., Leung, J. Y-T. and Zhao, H., Bi-criteria Scheduling Problems: Number of Tardy Jobs and Maximum Weighted Tardiness, European Journal of Operational Research, 177:116-134, 2007.

17. Leung, J. Y-T. and Zhao, H., Minimizing Sum of Completion Times and Makespan in Master-Slave Systems, IEEE Transactions on Computers, 55(8):985-999, 2006.

18. Leung, J. Y-T. and Zhao, H., Minimizing Mean Flowtime and Makespan on Master-Slave Systems, Journal of Parallel and Distributed Computing, 65:843-856, 2005.

19. Czumaj, A. and Zhao, H., Fault-Tolerant Geometric Spanners, Discrete and Computational Geometry, 32, 207-230, 2004.

Referred Conference Papers

20. H. Zhao, "Maximizing the Total Number of on Time jobs on Identical Machines", Proceedings of 9th International Conference on Computer Science, Engineering and Application, 2019, Toronto, Canada, July 13-14.

21. A.,Silaen, H. Zhao, B. Wu, J. Trimble, D. Grenough, M. Wilke, L. Fabina, J. Mengel and C. Zhou, "Development of a Caster Scheduling Model for Process Optimization", AISTech 2017, Nashville, Tenn., May 8-11.

22. L. Li, Y. Huo., and H. Zhao, "Minimizing the Number of Late Multi-Task Jobs on Identical Machines in Parallel", Proceedings of 9th International Workshop on Computational Optimization, 587-594, Gdansk, Poland, September 11-14, 2016.

23. Y. Huo and H. Zhao, "Minimizing Total Completion Time in Flow shop with Availability Constraints," 9th International Workshop on Computational Optimization (WCO'16), Proceedings of the Federated Conference on Computer Science and Information Systems, 637-645, 2016.

24. Y. Huo and H. Zhao, "Bi-criteria Scheduling on Multiple Machines Subject to Machine Availability Constraints," The Seventh International Frontiers of Algorithmics Workshop and The Ninth International Conference on Algorithmic Aspects of Information and Management (FAW-AAIM 2013).

25. Y. Huo, B. Reznichenko and H. Zhao, "Minimizing Total Weighted Completion Time with Unexpected Machine Unavailability," The 6rd Annual International Conference on Combinatorial Optimization and Applications (COCOA'12), Lecture Notes In Computer Science, Vol. 7402: 291-300, 2012.

26. B. Fu, Y. Huo and H. Zhao," Approximation Schemes for Scheduling with Availability

    Constraints," In the Proceedings of the Fourth International Frontiers of Algorithmic Workshop (FAW 2010), Lecture Notes in Computer Science, Vol. 6213: 77-88, 2010.

27. B. Fu, Y. Huo and H. Zhao. "Coordinated Scheduling of Production and Delivery with Production Window and Delivery Capacity Constraints, " The Sixth International Conference on Algorithmic Aspects in Information and Management (AAIM 2010), Lecture Notes In Computer Science, Vol. 6124: 141-149, 2010.

28. B. Fu, Y. Huo and H. Zhao. "Makespan minimization with machine availability constraints", COCOA 2009, LNCS 5573: 430-437, 2009.

29. Y. Huo, H. Li and H. Zhao. "Minimizing total completion time in two-machine flow shops with exact delays", Proceedings of COCOA 2008, 427-437, Volume 5165 of LNCS, 2008.

30. H. Li and H. Zhao. "Scheduling Coupled-Tasks on a Single Machine, " Proceedings of 2007 IEEE Symposium on Computational Intelligence in Scheduling, 137-142.

31. Berger, A., Czumaj, A., Grigni, M., and Zhao, H., Approximate Minimum 2-Connected Subgraphs in Weighted Planar Graphs, Proceedings of the 13th Annual European

Symposium on Algorithms (ESA'05), Lecture Notes in Computer Science, Vol. 3669: 472 - 483, Mallorca, Spain, October 3-6, 2005.

32. Leung, J. Y-T. and Zhao, H., Scheduling Algorithms for Master-slave Systems Proceedings of the 2nd Multidisciplinary International Conference on Scheduling: Theory & Applications (MISTA 2005), 501-513, New York City, July 18-21, 2005.

33. Leung, J. Y-T. and Zhao, H., Minimizing Mean Flowtime on Master-Slave Machines, Proceedings of the 2004 International Conference on Parallel and Distributed Processing Techniques and Applications, 2:939-945, Las Vegas, June 21-24, 2004.

34. Czumaj, A., Grigni, M., Sissokho, P. A., and Zhao H., Approximation Schemes for Minimum 2-edge-connected and Biconnected Subgraphs in Planar Graphs, Proceedings of the 15th Annual ACM-SIAM Symposium on Discrete Algorithms (SODA'04), 496-505, New Orleans, January 11-14, 2004

35. Czumaj, A. and Zhao, H., Fault-Tolerant Geometric Spanners, Proceedings of the 19th ACM Symposium on Computational Geometry (SoCG'03), pages 1-10, San Diego, June 8-10, 2003.

36. Czumaj, A., Lingas, A., and Zhao, H., Polynomial-Time Approximation Schemes for the Euclidean Survivable Network Design Problem, Proceedings of the 29th International Colloquium on Automata , Languages and Programming (ICALP'02), pages 973-984, Malaga, Spain, July 8-13, 2002. Berger, A., Czumaj, A., Grigni, M., and Zhao, H., Approximate Minimum 2-Connected Subgraphs in Weighted Planar Graphs, Proceedings of the 13th Annual European Symposium on Algorithms (ESA'05), Lecture Notes in Computer Science, Vol. 3669: 472 - 483, Mallorca, Spain, October 3-6, 2005.

37. Leung, J. Y-T. and Zhao, H., Scheduling Algorithms for Master-slave Systems Proceedings of the 2nd Multidisciplinary International Conference on Scheduling: Theory & Applications (MISTA 2005), 501-513, New York City, July 18-21, 2005.

38. Leung, J. Y-T. and Zhao, H., Minimizing Mean Flowtime on Master-Slave Machines, Proceedings of the 2004 International Conference on Parallel and Distributed Processing Techniques and Applications, 2:939-945, Las Vegas, June 21-24, 2004.

39. Czumaj, A., Grigni, M., Sissokho, P. A., and Zhao H., Approximation Schemes for Minimum 2-edge-connected and Biconnected Subgraphs in Planar Graphs, Proceedings of the 15th Annual ACM-SIAM Symposium on Discrete Algorithms (SODA'04), 496-505, New Orleans, January 11-14, 2004

40. Czumaj, A. and Zhao, H., Fault-Tolerant Geometric Spanners, Proceedings of the 19th ACM Symposium on Computational Geometry (SoCG'03), pages 1-10, San Diego, June 8-10, 2003.

41. Czumaj, A., Lingas, A., and Zhao, H., Polynomial-Time Approximation Schemes for the Euclidean Survivable Network Design Problem, Proceedings of the 29th International Colloquium on Automata , Languages and Programming (ICALP'02), pages 973-984, Malaga, Spain, July 8-13, 2002.

Technical Report

Leung, J. Y-T. and Zhao, H., *Real-Time Scheduling Analysis*, Technical Report NJIT/WOW 01/C/AW/NJIT Amendment 1, October, 2003. This research was funded by Federal Aviation Agency.

Scholarly Presentations

1. Maximizing the Total Number of on Time jobs on Identical Machines, the 9th International Conference on Computer Science, Engineering and Application, 2019, Toronto, Canada, July 13-14, 2019.

2. Maximizing the Number of On Time Multi-Task Jobs on identical Machines in Parallel, Informs 2018, Phoenix, AZ, November 4 -7, 2018.

3. Minimizing Total Completion Time in a Two-Machine Flow shop Subject to Availability Constraints, Informs 2018, Phoenix, AZ, November 4 -7, 2018.

4. Scheduling of Continuous Slab Casters, Informs 2017, Houston Texas, October 22 - 25, 2017.

5. Minimizing the Number of Late Multi-Task Jobs on Identical Machines in Parallel, Informs 2016, Nashville, TN, November 13 -16, 2018.

6. Polynomial Time Algorithms For Two Machines Bi-criteria Scheduling Subject to Arbitrary Machine Availability Constraints, INFORMS (Institute for Operations Research and the Management Sciences) International 2016, Hawaii, June 2016.

7. Minimizing Total Completion Time in a Two-Machine Flow shop Subject to Availability Constraints, PUC faculty research day, October 2015.

8. Minimizing Total Completion Time in Flow Shop with Machine Unavailability using Meta-heuristics, INFORMS Annual Meeting, Philadelphia, November 2015

9. Minimizing Total Completion Time in Flowshop with an Unavailable Interval on the First Machine, INFORMS Annual Meeting, San Francisco, November 2014.

10. Minimizing Total Completion Time in a Two-Machine Flow shop Subject to Availability Constraint, POMS (Production and Operations Management Society), Atlanta, May 2014.

11. Bi-criteria Scheduling Subject to Machine Availability, INFORMS Annual Meeting, Phoenix, October 2012.

12. Coordinated Scheduling of Production and Delivery with Production Window and Delivery Capacity Constraint, POMS, Chicago, April 2012.

13. Two Machine Bi-criteria Scheduling Subject to Machine Availability, POMS, Chicago, April 2012.

14. Approximation Schemes for Scheduling with Availability Constraints, INFORMS Annual Meeting, Charlotte, 2011.

15. Makespan minimization with machine availability constraints, INFORMS Annual Meeting, San Diego, October 2009.

16. Makespan minimization with machine availability constraints, The Third Annual International Conference on Combinatorial Optimization and Applications (COCOA), Yellow Mountains, China, June 2009.

17. Makespan minimization with machine availability constraints, PUC Faculty Research Day, March 2009.

18. Solving Combinatorial Optimization Problems, MCSS Department Colloquium, November, 2008

19. Minimizing Total Completion Time in Two-Machine Flow Shops With Exact Delay, INFORMS Annual Meeting, Washington D.C., October 2008.

20. Minimizing Total Completion Time in Two-Machine Flow Shops With Exact Delay, the Second Annual International Conference on Combinatorial Optimization and Applications (COCOA), St. John's, Canada, August 2008.

21. Minimizing Total Completion Time in Two-Machine Flow Shops With Exact Delay, PUC Faculty Research Day, March 2008.

22. Scheduling Coupled-Tasks on a Single Machine, IEEE Symposium on Computational Intelligence in Scheduling (CISched), Honolulu, Hawaii, April 2007.

23. Minimizing Makespan in Two-Machine Flowshops with Exact Delays, INFORMS Annual Meeting, Pittsburgh, November 2006.

24. Scheduling Algorithms for Master-slave System, the 2nd Multidisciplinary International Conference on Scheduling: Theory & Applications (MISTA 2005), New York City, July 2005.

25. Survivable Network Design and Fault Tolerant Spanners, Los Alamos National Laboratory, March 28, 2005.

26. Minimizing Mean Flowtime and Makespan on Master-Slave Systems, INFORMS, Denver, October 2004. Fault tolerant spanners and their applications, Invited presentation: DIMACS (Center for Discrete Mathematics and Theoretical Computer Science)/CS Seminar: Theoretical Computer Science, New Brunswick, NJ, March 2004.

27. Approximation Schemes for Minimum 2-Edge-Connected and Biconnected Subgraphs in Planar Graphs, the 15th Annual ACM-SIAM (Association for Computing Machinery-Society for Industrial and Applied Mathematics) Symposium on Discrete Algorithms, New Orleans, LA, January 2004.

28. Fault-Tolerant Geometric Spanners, DIMACS (Center for Discrete Mathematics and Theoretical Computer Science) Workshop on Computational Geometry, New Brunswick, NJ, November 2002.

Grants and Awards

Fall 2016	Professional Development Grant, CIVS, $3000
Summer 2016	Twin Strand Slab Caster Scheduling, collaborated with CIVS, $4660
Spring 2016	CEMS Research Release Award, 0.25 FTE

Fall 2013	Sabbatical Leave Award
Summer 2012	PRF Summer Grant, $8000
Summer 2010	NWIGRID Summer Grants, Solving Vehicle Routing Problem with
2009-2010	Project Reviewer for ProLogic and 21st Century Systems, Inc, $1000
Fall 2009	Chinese Ministry of Education Special Fund for Short-term Return
Summer 2009	Northwest Indiana Computational Grid (NWICG) Award, $7500
Spring 2009	PUC Faculty Research Time Release Award, $3000
Spring 2009	Student - Faculty Research Collaboration Award, $600
Fall 2008	PUC Sponsored Research Travel Grant, $500
Summer 2007	PUC Alternative Summer Research Grant, $1000
Spring 2007	PUC Faculty Research Time Release Award, 0.25FTE
Summer 2006	PUC Summer Proposal Development Grant, $3000

Courses Taught

CS12300 Programming I: Java

CS12300 (online) Programming I: Java

CS12400 Programming II: C++

CS27500 Data Structure

CS30200/ ECE 46800 Operating Systems

CS30300 Software Design

CS30900 Discrete Mathematical Structures

CS31600 Programing Languages

CS33200 Algorithms

CS41000 Automata and Computability

CS41600 Software Engineering

CS42000 Senior Design Project

CS44200 Database Systems

CS49000 Undergraduate Research

CS51510 Algorithms

CS51540 Object Oriented Analysis, Design and Programming

CS51550 Database Systems

CS59000 Independent Study

CS59000 Software Design

MA14700 Algebra and Trigonometry for Technology I

MA14800 Algebra and Trigonometry for Technology II

MA20500 Discrete Mathematics for Computer Technology

MA21400 Linear Algebra and Linear Programming

MA22500 Calculus for Business and Economics

MA26500 Linear Algebra

Student Research

Fall 2019	Anthony Rodriguez	Maximizing the Number of On-time Jobs on Parallel Machines
Fall 2018	Amanda Neel	Hotel database management/web application project
Spring 2018	Lance Natonski	PNW Virtual Campus Tour
Spring 2018	Andrew Phifer	Enhancing Java Visualizer
Spring 2017	Abishek Sharma	Trends and Opinions Prediction Using Twitter
Spring 2017	Ammad Asfar	Twin Strand Slab Caster Scheduling
Summer 2016	Mengmeng Du	Twin Strand Slab Caster Scheduling
Summer 2016	Levi Fowler	Mixed Integer Linear Programming Based Approach for Average Completion Time Minimization in Two-Machine Flowshops
Spring 2016	Campbell Scott	Flow-shop Scheduling with Breakdown on the Second Machine
Fall 2015	Aaron Muir	Experimental Analysis of Flowshop Total Completion Time Minimization Methods
Summer 2015	Daniel Sicinski Joshua Fiorio	Using Branch and Bound for Flow-shop Scheduling with Breakdown
Spring 2013	Eric Fulkerson	Bi-criteria Flowshop Scheduling

Fall 2011	Shiela Darlene Davis	Scheduling Theory
Summer 2010	Brian Hunter	Using Ant Colony on High Performance Computing to solving Vehicle Routing Problem with Time Window
Summer 2010	Yuhua Cui	Using Genetic Algorithms on High Performance Computing to solve Vehicle Routing Problem with Time Window
Fall 2010	Zhewei Wang	Vehicle Scheduling Algorithm
Fall 2009	Jeremy Humble	Minimizing Flowtime on Single Machine with Two Breakdowns
Summer 2009	Yong Piao Ning Xu	Applying High Performance Computing For Water Quality Prediction
Spring 2009	Brian Hunter	Parallel Implementation of Ant Colony Optimization
Spring 2009	Joshua Glascock	Parallel Implementation of Genetic Algorithms

a. **Research Papers Published with/by Students**

1) Huo, Y., Reznichenko, B. and Zhao, H., Minimizing Total Weighted Completion Time with Unexpected Machine Unavailability, Journal of Scheduling, 17:161-172, 2014.

2) Piao, Y., Zhang, R., Zhao, H., Applying data mining and HPC for water quality assessment and prediction, Proceedings of the 3rd International Conference on Advanced Computer Control (ICACC), 487 – 491, Harbin, China, Jan 18-20, 2011.

3) Glascock, J., and Hunter, B., Minimizing Total Completion Time in Two-Machine Flow Shops with Exact Delay Using Genetic Algorithm & Ant Colony Algorithm, Proceedings of the 7th Annual Undergraduate Student Workshop at the Genetic and Evolutionary Computation Conference, July 8th, Montreal, Canada, 2009.

b. **Student Awards**

Fall 2019	Anthony Rodriguez	Undergraduate Research Grant
Spring 2017	Abishek Sharma	Indiana Space Grant
Summer 2016	Levi Fowler	Indiana Space Grant
Fall 2015	Aaron Muir	Indiana Space Grant

Summer 2009	Joshua Glascock Brian Hunter	GECCO Student Travel Grant
Spring 2009	Joshua Glascock Brian Hunter	Student - Faculty Research Collaboration Award
Summer 2008	Jeffery Hein	LSAMP Award

c. Student Research Presentations Since 2009

March 2016	Aaron Muir	PUC Student Research Day

Referred Conference Paper on Teaching

1. D. Wei, S. Zhang, S.Yang, H. Zhao, *Evaluation of an Auto-generated Data Structures and Algorithms Visualization Approach at Tri-State College,* Proceedings of International Conference on Collaboration Technologies and Systems (CTS), 183 – 189, Atlanta, 2015.

Professional Service

a. Manuscripts Refereed

1) One manuscript submitted to Quality and Reliability Engineering International
2) One manuscript submitted to Journal of Scheduling
3) One manuscript submitted to Computers & Operations Research
4) One Research Grant Application submitted to Israel Science Foundation
5) Two manuscripts submitted to Journal of Scheduling, 2017
6) One manuscripts submitted to Computers & Operations Research, 2017
7) One manuscript submitted to Operations Research, 2017
8) One manuscript submitted Computers & Industrial Engineering
9) One manuscripts submitted to IIE Transactions, 2016
10) One manuscript submitted to Computers and Operations Research, 2016
11) Two manuscript submitted to Operations Research, 2016
12) One manuscripts submitted to Journal of Scheduling, 2016
13) One manuscript submitted to Journal of the Operational Research Society, 2016
14) Two manuscripts submitted to International Journal of Production Economics, 2015
15) One manuscript submitted to Journal of Systems Science and Systems Engineering, 2015
16) One manuscript submitted to European Journal of Operations Research, 2015
17) Two manuscripts submitted to Operations Research, 2014
18) Two manuscript submitted to Journal of Scheduling, 2014
19) Two manuscripts submitted to OMEGA, 2014
20) Two manuscripts submitted to OMEGA, 2013
21) One manuscript submitted to Operations Research, 2013
22) One manuscript submitted to Journal of Scheduling, 2013
23) One manuscript submitted to ACM-SIAM Symposium on Discrete Algorithms, 2013
24) One manuscript submitted to Journal of Scheduling, 2012
25) One manuscript submitted to Operations Research, 2012

26) Two manuscripts submitted to OMEGA, 2012
27) Four manuscripts submitted to WCICA2012: 9th World Congress on Intelligent Control and Automation, 2012
28) One manuscript for IIE Transactions, 2011
29) Three manuscripts for Journal of Industrial and Management Optimization, 2011
30) Four manuscripts for IEEE Wireless Communications and Networking Conference, 2012
31) One manuscript for SIAM: ACM-SIAM Symposium on Discrete Algorithms (SODA11), 2010
32) One manuscript for Journal of Scheduling, 2010
33) One manuscript for the Workshop on Internet & Network Economics (WINE), 2009.
34) One manuscript for Operations Research, 2009.
35) Two manuscripts for European Journal of Operations Research, 2009
36) One manuscript for the Workshop on Internet & Network Economics (WINE), 2009.
37) One manuscript for Operations Research, 2009.
38) Two manuscripts for European Journal of Operations Research, 2009
39) wo manuscripts for the 49th Annual IEEE Symposium on Foundations of Computer Science (FOCS 2008)
40) Two manuscripts for the 35th International Colloquium on Automata, Languages and Programming (ICALP 2008)
41) Two manuscriptsfor Journal of Distributed Computing, 2008
42) One manuscript for IIE Transactions, 2008
43) One manuscript for Journal of Industrial and Management Optimization, 2008
44) Two manuscripts for the 15th Annual European Symposium, 2007
45) One manuscript for European Journal of Operations Research, 2007
46) One manuscript for the 2007 IEEE Sarnoff Symposium
47) One manuscript for the Journal of Production and Operations Management, 2006
48) One manuscript for the Annual ACM Symposium on Principles of Distributed Computing, 2005
49) One manuscript for ACM Transactions on Algorithms, 2005

b. Book Chapters Reviewed (at the request of publisher) 1)

Chapter 3 – 5, SCIORE-Database Management: A Systems Approach Using Java, 1e, by John Wiley & Sons, 2006.

University and College Committee and Service

Fall 2019 -	Faculty Development & Leadership Advisory Board
Fall 2018 – present	senator
2009-Present	Judge/Chair for student oral presentations and posters on Student Research Day
2015	Chair of Graduate Research Award Committee

2014-2016	Strategic Planning Committee of CEMS
2012	PUC Phase I Grant Proposal Review Committee
2012	The Graduate Research Award Committee
2009 -2010	Student Research Office Advisory Group
2006-2010	Parking Policy Advisory Committee
2006 – 2008	Faculty Development Committee
2006 – 2009	Faculty Grievance Committee

Department Committee and Service

Fall 2019 -	CS program coordinator
Fall 2018 -	CS graduate program assessment leader
Fall 2010 – Present	Chair/Advisor of Graduate Committee for CS Program
Fall 2005 – present	Computer Science Courses Committee
Spring 2016	PNW Open House at Calumet campus
Fall 2015	PUC Open House
Fall 2014	Taskforce on MCSS guidelines for use of Salary Savings and Summer School revenue funds
Spring 2011	Graduate School Fair, on behalf of MCSS
Spring 2009	Computer Education for the Digital Age on behalf of Computer Science, PUC
Spring 2009	Member of CS Faculty Search Committee