

CURRICULUM VITAE

Yih-Long Chang
Professor of Operations Management

College of Management
Georgia Institute of Technology
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EDUCATION

Ph. D. The University of Texas at Austin, May 1985. Major Field: Operations Management.
Supporting Fields: MIS, Management Science.

M. S. The National Chiao-Tung University, Taiwan, June 1977.
Major Fields: Management Science and MIS.

B. S. The National Taiwan University, Taiwan, June 1975.
Major Fields: Electrical and Computer Engineering.

MAJOR FIELDS

Operations Management with an emphasis on the applications and integration of operations management, information systems, management science and operations research.

EMPLOYMENT

5/98- Present	Professor College of Management Georgia Institute of Technology
6/89 – 4/98	Associate Professor School of Management Georgia Institute of Technology
8/87 - 5/89	Assistant Professor Department of Management Information Systems The University of Arizona
7/85-8/87	Assistant Professor Faculty of Management Sciences, College of Business The Ohio Sate University

- 6/84-5/85** Assistant Instructor
School of Business
The University of Texas at Austin
- 9/82-5/84** Teaching Assistant
School of Business
The University of Texas at Austin
- 6/79-8/82** Manager of Management Information Systems
Fu-Sheng Industrial Company, Taipei, Taiwan.
Also, instructor of Chunghua Management Consulting Company and
Chunghsin Consulting Company
- 10/77-5/79** Instructor
National Defense Management School, Taipei, Taiwan
- 9/76-6/77** Instructor, Computer Science,
Tan-Suei Industrial Management School, Taipei, Taiwan
Also, researcher of Taiwan Power Company: Project: Power Allocation.
- 9/75-6/76** Research Assistant, National Chiao-Tung University
Graduate School of Management Science,
National Chiao-Tung University

HONORS AND AWARDS

Honorable Mention for the Best Doctoral Dissertation 1984-85,
The Graduate School of the University of Texas at Austin.

University Fellowship, the University of Texas at Austin, 1984-1985.

Eugene and Dora Bonham Memorial Fund Research Grant, 1984.

Fund for Professional Development, the University of Texas at Austin, 1984.

National Electrical Engineering License, Taiwan, 1975.

Best Paper Award In Production and Operations Management Track, "Heuristic Algorithms for Scheduling Operations in MRP Job Shop Case", Southeastern Chapter of INFORMS, 2001 Annual Meeting.

GRANTS

University Small Grant, the University of Arizona, 1988

University Seed Grant, the Ohio State University, 1987

Dean's Research Professorship, College of Business, the Ohio State University, 1987

Seed Money Grant, College of Administrative Science, the Ohio State University, April 1986, Research Title: Scheduling in a Flexible Manufacturing System

Ira Kay Memorial Research Grant in Computer Simulation, Annual Simulation Symposium, March 1986, Research Title: Design of Priority Schemes in CSMA/CD Local Area Network

National Science Foundation Travel Grant for presenting paper at the Japan-U.S.A. Symposium on Flexible Automation at Osaka, Japan, July, 1986.

CPBIS Research Project 2001-2003, "A Study of the MRO Supply Chain for Paper Mills." (With Professors Cheryl Gaimon, Soumen Ghosh, and Vinod Singhal)

SERVICE

At Georgia Tech

OM Certificate Coordinator (98-Present)

OM Area Coordinator (98-Summer 2002)

College Undergraduate Curriculum Committee (97-Present)

OM Ph. D. Program Coordinator (93-97)

Ph.D. Advising (3 graduated and 1 expected in May 2008)

Ph.D. Dissertation Committee (more than 15 times)

Institute MOT (Management of Technology) Committee

Institute CIMS (Computer Integrated Manufacturing Systems) Committee

AACSB Peer Review Committee for CMU

Milliken Summer Challenge Project Advisor (Advise 4 projects)

College Ph.D. Committee (1994-2000)

College MSM Committee (2001)

Coordinating MGT 3501 and MGT 2251 teaching

Faculty Development Program Representative from DCOM to the Southeast CIBER Consortium: Visited Chile, Argentine, and Brazil

Institute Advisory Committee on Promotion of Research Faculty (2005)

Institute Undergraduate Curriculum Committee (IUCC) (starting summer 2007)

IUCC Study Abroad Subcommittee (starting summer 2007)

Technical Committee for Professor Kavadias PR&T review (2007, serve as committee chair)

At The Ohio State University (7/85-6/87)

Four times in the department tenure review committee.
 Three Ph. D. candidate advising committees
 Advising two master students

At The University of Arizona (7/87 to 5/89)

Four Ph. D. dissertation committees
 Four Ph. D. candidate advising committees
 Eight Ph. D. student minor committees

Referee for many professional journals (see Professional Activities)

Presented papers at many professional conferences (see Paper Presentations)

PUBLICATIONS

Journal Papers (refereed)

1. Y. Chang, R.S. Sullivan, U. Bagchi and J.R. Wilson, "Experimental Investigation of Real-time Scheduling in Flexible Manufacturing Systems," *Annuals of Operation Research*, 3, pp. 355-377, 1985.
2. Y. Chang, R.S. Sullivan and J.R. Wilson, "Using SLAM to Design the Material Handling System of a Flexible Manufacturing System," *International Journal of Production Research*, Vol. 24, No. 1, pp. 15-26, 1986.
3. U. Bagchi, R.S. Sullivan, and Y. Chang, "Minimizing Mean Absolute Deviation of Completion Times about a Common Due Date," *Naval Research Logistics Quarterly*, Vol. 33, pp. 227-240, 1986.
4. U. Bagchi, R.S. Sullivan, and Y. Chang, "Minimizing Mean Squared Deviation of Completion Times about a Common Due Date," *Management Science*, Vol. 33, No. 7, pp. 894-906, July 1987.
5. U. Bagchi, Y. Chang, and R.S. Sullivan, "Minimizing Absolute and Squared Deviations of Completion Times with Different Earliness and Tardiness Penalties and a Common Due Date," *Naval Research Logistics Quarterly*, Vol. 34, pp. 739-751, 1987.
6. Y. Chang and S. Shen, "Simulation Investigation on Message Based CSMA/CD Priority Protocols," *Simulation*, 50:5, pp. 203-214, May 1988.
7. S. Shen and Y. Chang, "Schedule Generation in a Flexible Manufacturing System: A Knowledge-based Approach," *Decision Support Systems*, 4, pp. 157-166, 1988.

8. Toshiyuki Sueyoshi and Y. Chang, "An Efficient Algorithm for Additive and Multiplicative Models in Data Envelopment Analysis," *OR Letters*, 8, pp. 205-213, 1989.
9. Y. Chang, H. Matsuo and R. S. Sullivan, "A Bottleneck Based Beam Search for Job Scheduling in a Flexible Manufacturing System," *International Journal of Production Research*, Vol. 27, No. 11, pp. 1949-1961, 1989.
10. Toshiyuki Sueyoshi and Y. Chang, "Goal Programming Approach for Regression Median," *Decision Sciences*, Vol. 20, No. 4, pp. 700-714, 1989.
11. Y. Chang and R.S. Sullivan, "Schedule Generation in a Dynamic Job Shop with Parallel Workstations," *International Journal of Production Research*, Vol. 28, No. 1, pp. 65-74, 1990.
12. Jim Hutchinson and Y. Chang, "Optimal Nondelay Job Shop Schedules," *International Journal of Production Research*, Vol. 28, No. 2, pp. 245-257, 1990.
13. Farhad Moeeni and Y. Chang, "An Approximate Solution to Deterministic Kanban Systems," *Decision Science*, Vol. 21, No. 3, pp. 596-607, 1990.
14. John Ho and Y. Chang, "A New Heuristic for the n-Job, M-Machine Flowshop Problem," *European Journal of Operational Research*, 52, 1991, pp. 194-202.
15. Asoo Vakharia and Y. Chang, "A Simulated Annealing Approach to Scheduling a Manufacturing Cell," *Naval Research Logistics*, Vol. 37, pp. 559-577 (1990).
16. Y. Chang and Toshiyuki Sueyoshi, "An Interactive Application of DEA in Microcomputers," *Computer Sciences in Economics and Management*, 4: 51-64 (1991).
17. Johnny Ho and Y. Chang, "Heuristics for Minimizing Mean Tardiness for Parallel Machine." *Naval Research Logistics*, Vol. 38, 1991, pp. 367-381.
18. Y. Chang, Howard Liu and Sheldon Shen, "Analysis of a CSMA/CD Priority Protocol." *International Journal of Information and Management Sciences*, Vol. 2, No. 2, 1991, pp. 101-133.
19. Y. Chang and Sheldon Shen, "Performance Comparison: CSMA/CD Vs. Token Ring." *International Journal of Information and Management Sciences*, Vol. 3, No. 2, 1992.
20. Y. Chang, "Time Window Capacity Analysis for Synchronous Production." *Production Planning and Control*, Vol. 5, No. 1, 1994, pp. 66-81.
21. Johnny Ho and Y. Chang, "Minimizing the Number of Tardy Jobs for m Parallel Machines," *European Journal of Operational Research*, 84, 1995, pp. 343-355.

22. Karim Hatoum and Y. Chang, "Trade-off Between Quoted Lead Time and Price." *Production Planning and Control*, Vol. 8, No. 2, pp. 158-172, 1997.
23. Y. Chang, Toshiyuki Sueyoshi, and Robert S. Sullivan, "Ranking Dispatching Rules by Data Envelopment Analysis in a Job Shop Environment." *IIE Transactions*, 28, 1996, pp.631-642.
24. Lien Yao-Nan, Y. Chang, and B. W. Wah, "File Allocation on the Two-level Network." Accepted by *Information Sciences*.
25. Asoo Vakharia, and Y. Chang, "Cell Formation in Group Technology: A Combinatorial Search Approach." *International Journal of Production Research*, Vol. 35, No. 7, pp. 2025-2043, 1997.
26. Johnny Ho and Y. Chang, "An Integrated MRP and JIT Framework", *Computers & Industrial Engineering*, Vol. 41, No. 2, November, 2001, pp. 173-185.
27. Johnny Ho and Y. Chang, "A new MRP/GT lot sizing heuristic: A simulation study", *Production Planning and Control*, Vol. 14, 215–224, 2003.
28. Su, C. P, Y. Chang, and Johnny Ho, "Evaluation of Component Commonality Strategy in Supply Chain Environment", *Asia Pacific Management Review*, Vol. 9(5), pp. 801-821, 2004.
29. Su, C. P, Y. Chang, and Ferguson, M., "Evaluation of Postponement Structures to Accommodate Mass Customization", *Journal of Operations Management*, 23, pp. 305-318, 2005.
30. Johnny Ho and Y. Chang, "Heuristics for Scheduling Operations in MRP: Job Shop Case". *International Journal of Industrial Engineering*, 12(4), pp. 322-334, 2005.
31. Johnny Ho, Y. Chang, and Adriano O. Solis, "Two Modifications of Least Cost per Period Heuristic for Dynamic Lot-sizing" *Journal of Operation Research Society*, Vol. 57(2006), pp. 1005-1013.
32. Johnny Ho, Y. Chang and Tsu-Liang Tseng, "Heuristics for Scheduling Operations in MRP: Flow Shop Case". *Academy of Information and management Sciences Journal*, Vol. 9, No. 2, 2006, pp. 111-129.
33. Johnny Ho, Adriano O. Solis, and Y. Chang, " An Evaluation of Lot-Sizing Heuristics for Deteriorating Inventory in MRP Systems" *Computer and Operations Research*, 34 (2007), pp. 2562-2575.
34. Andrew Manikas, Y. Chang, and Mark Ferguson, "BlueLinx Can Benefit from Innovative Inventory Management Methods for Commodity Forward Buys" Accepted by *Omega*.

35. Andrew Manikas and Y. Chang, “A Scatter Search Approach to Sequence Dependent Job Shop Scheduling” Accepted by *International Journal of Production Research*.

Books and Computer Software

1. Y. Chang and R.S. Sullivan, QSB (Quantitative Systems for Business): Software and User's Manual, Prentice-Hall, Inc., 1986.
2. Y. Chang and R.S. Sullivan, QSB Version 2.0/3.0/3.1: Software and Manual, Prentice-Hall, Inc., Fall 1987, Spring 1988.
3. Y. Chang and R.S. Sullivan, QSB+ (Quantitative Systems for Business Plus) Version 1.0: Software and Manual, Prentice-Hall, Inc., January 1989.
4. Y. Chang, QSOM (Quantitative Systems for Operations Management): Software and Manual, Prentice-Hall, Inc., January 1989.
5. Y. Chang and R.S. Sullivan, QS (Quant Systems): Software and Manual, Prentice-Hall, Inc., February 1989.
6. Y. Chang and R.S. Sullivan, QSB+ (Quantitative Systems for Business Plus) Version 2.0: Software and Manual, Prentice-Hall, Inc., Fall 1990.
7. Y. Chang, QSOM (Quantitative Systems for Operations Management) Version 2.0: Software and Manual, Prentice-Hall, Inc., Fall 1990.
8. Y. Chang and R.S. Sullivan, QS (Quant Systems) Version 2.0 : Software and Manual, Prentice-Hall, Inc., Fall 1990.
9. Y. Chang, QSB+ (Quantitative Systems for Business Plus) Version 3.0: Software and Manual, Prentice-Hall, Inc., Fall 1993.
10. Y. Chang, QSOM (Quantitative Systems for Operations Management) Version 3.0: Software and Manual, Prentice-Hall, Inc., Fall 1993.
11. Y. Chang, QS (Quant Systems) Version 3.0 : Software and Manual, Prentice-Hall, Inc., Fall 1993.
12. Y. Chang, WinQSB : Software and Manual, John Wiley & Sons, 1997.
13. Y. Chang, WinQSB : Software and Manual, Version 2.0, John Wiley & Sons, 2001, 2002.

Submitted Journal Papers

- (with Andrew Manikas), "Multi-Criteria Sequence Dependent Job Shop Scheduling Using Genetic Algorithms".
- (with Joon Park and Johnny Ho), "Inventory Model with Seasonal Demand: A Specific Application to Haute Couture".
- (with Manikas, A., and S. Gavirneni), "Practical Coordination Mechanisms for Assemble-To-Order Supply Chains".
- (with Jack Su), "Framework of Overlapping Product Development Activities to Maximize Profit".
- (with Su, C. P and Ferguson, M.), "The Impact of Delayed Differentiation in Make-to-Order Environments".

Conference Paper Presentations

1. "A Simulated Annealing Approach to Scheduling: A Manufacturing Cell," National ORSA/TIMS Joint Meeting at Denver, October 1988.
2. "Knowledge-based Approach for Job Scheduling," National Semiconductor Corporation, Tucson, Arizona, May 1988.
3. Chaired the Session: Decision Support and Microcomputers, National ORSA/TIMS Joint Meetings at Washington, D.C., April 1988.
4. "Quantitative Systems for Operations Management," National ORSA/TIMS Joint Meeting at Washington, D.C., April 1988.
5. "Implementation of DEA in Microcomputers," National ORSA/TIMS Joint Meeting at Washington, D.C., April 1988.
6. "File Allocation Problems On Homogeneous Two-Level Local Broadcast Network," The Fourth International Conference On Data Engineering, pp. 92-99, 1988.
7. "Active versus Non-delay Optimal Schedules," National DSI Annual Conference, Boston, 1987.
8. "File Allocation Problems on the Two-level Local Broadcast Networks," National ORSA/TIMS Joint Meeting at St. Louis, October 1987.
9. "Minimizing Deviation of Due Dates in a Single Machine Job," National ORSA/TIMS Joint Meeting at St. Louis, October 1987.
10. "Comparison of Four DEA Models," National ORSA/TIMS Joint Meeting at St. Louis, October 1987.
11. "A Beam Search Heuristic Method for Job Scheduling in a Flexible Manufacturing System," National ORSA/TIMS Joint Meeting at New Orleans, May 1987.

12. "Goal Programming Model for Exact Median Estimation," National ORSA/TIMS Joint Meeting at New Orleans, May 1987.
13. "An Interactive Application of DEA in Microcomputer," National ORSA/TIMS Joint Meeting at New Orleans, May 1987.
14. "Experimental Investigation of Message Based CSMA/CD Priority Protocols," The Twentieth Annual Simulation Conference, Tampa, Florida, March 1987.
15. "Production Scheduling in a Flexible Flow Shop," National ORSA/TIMS Joint Meeting at Miami, October 1986.
16. "Quantitative Systems for Business," National ORSA/TIMS Joint Meeting at Miami, October 1986.
17. "An AI Approach to Schedule Generation in a Flexible Manufacturing System," the Second ORSA/TIMS Special Interest Conference on Flexible Manufacturing Systems: Operation Research Models and Applications, at The University of Michigan, Ann Arbor, Michigan, August 1986.
18. "Lot Sizing in Flexible Assembly Systems," the Second ORSA/TIMS Special Interest Conference on Flexible Manufacturing Systems: Operation Research Models and Applications, at The University of Michigan, Ann Arbor, Michigan, August 1986.
19. "Evaluating the Introduction of Flexibility into A Job Shop System," The Japan-U.S.A. Symposium on Flexible Automation at Osaka, Japan, July 1986.
20. "Experimental Design for Job Scheduling in Flexible Manufacturing Systems," National ORSA/TIMS Joint Meeting at Los Angeles, April 1986.
21. "Schedule Generation in a Dynamic Job Shop," National ORSA/TIMS Joint Meeting at Atlanta, November 1985.
22. "Minimizing Mean Squared Deviation of Completion Times about a Common Due Date," National ORSA/TIMS Joint Meeting at Boston, April 1985.
23. "Experimental Investigation of Realtime Scheduling in Flexible Manufacturing Systems," National ORSA/TIMS Joint Meeting at Dallas, November 1984.
24. "Experimental Investigation of Quasi-Realtime Scheduling in Flexible Manufacturing Systems," the First ORSA/TIMS Special Interest Conference on Flexible Manufacturing Systems: Operation Research Models and Applications, at The University of Michigan, Ann Arbor, Michigan, August 1984.
25. "Linearly Varying, Delay-Dependent, Non-Preemptive Queue Disciplines," TIMS XXVI, Copenhagen, Denmark, June 1984.

26. "Real-Time Scheduling of Flexible Manufacturing Systems," National ORSA/TIMS Joint Meeting at San Francisco, May 1984.
27. "Stochastic Aspects of Flexible Manufacturing Systems: Research Opportunities and Issues," National AIDS Annual Conference, San Antonio, 1983.
28. "An Approximate Solution to Deterministic Kanban Systems," National ORSA/TIMS Joint Meeting at Vancouver, Canada, May 1989.
29. "Ranking Dispatching Rules by Data Envelopment Analysis in a Job Shop Environment." National ORSA/TIMS Joint Meeting at New York, October 1989.
30. Chaired session: AI in Manufacturing, National ORSA/TIMS Joint Meeting at New York, October 1989.
31. "Time Window Capacity Analysis for Production Synchronization," Symposium on Scheduling, Shanghai, China, 8/6-8/10, 1990.
32. "Minimizing the Number of Tardy Jobs for m Parallel Machines." National ORSA/TIMS Joint Meeting at Philadelphia, October 1990.
33. "A Simulated Annealing/Tabu Search Approach to Cell Formation in Group Technology." National ORSA/TIMS Joint Meeting at Nashville May 1991.
34. "Incorporating Operations Scheduling into Material Requirements Planning." National ORSA/TIMS Joint Meeting at Anaheim, CA. November 1991.
35. "Simulated Annealing and Genetic Algorithm: The Single Machine Weighted Tardiness Problem." National ORSA/TIMS Joint Meeting at Phoenix, October 1993.
36. Best Paper Award In Production and Operations Management Track, "Heuristic Algorithms for Scheduling Operations in MRP Job Shop Case", Southeastern Chapter of INFORMS, 2001 Annual Meeting.
37. "Supply Chain Strategy to Cope with the Challenge of Increasing Customization", National INFORMS Meeting at San Jose, November 2002
38. "Supply Chain Strategy for Make-to-order environment", National DSI Meeting at San Diego, November 2002
39. "The Impact of Delayed Differentiation in Make-to-Order Environments", POMS Annual Meeting, Savannah, GA, April 2003.
40. "The Resource Constrained Project Scheduling Problem with Expiring Resources", POMS Annual Meeting, Savannah, GA, April 2003.

41. "The Impact of Delayed Differentiation in Make-to-Order Environments", INFORMS Annual Meeting, Atlanta, GA, October 2003.
42. "Using a Genetic Algorithm to Solve the Sequence Dependent Job Shop Scheduling Problem" at INFORMS national conference, San Francisco, CA November 13-17, 2005.
43. "Job Shop Rescheduling Due to Unplanned Supply Chain Disruptions via Scatter Search" *Proceedings of POMS*, Boston, Massachusetts, 2006.
44. "Commodity Forward Buys at a Two-Stage Distributor" *DSI* 2006, San Antonio, Texas.
45. "An Improved Heuristic for Commodity Forward Buys" *INFORMS* 2006, Pittsburgh, Pennsylvania.
46. "Salvage Manipulators as an ATO Coordination Mechanism" *DSI* 2007, Phoenix, Arizona.
47. "Efficient n -Supplier Coordination" *INFORMS* 2007, Seattle, Washington.
48. "Multi-Criteria Sequence Dependent Job Shop Scheduling Using Genetic Algorithms" *INFORMS* International 2007, Puerto Rico.

Conference Paper Presentations with Proceedings (refereed)

1. (with Yao-Nan Lien and Benjamin Wah), "File Allocation Problems On Homogeneous Two-Level Local Broadcast Network," The Proceeding of The Fourth International Conference On Data Engineering, pp. 92-99, 1988.
2. (with Jim Hutchinson), "Active versus Non-delay Optimal Schedules," 1986 Proceedings National AIDS Annual Conference, Boston, 1986.
3. (with S. Shen), "Experimental Investigation of Message Based CSMA/CD Priority Protocols," Proceeding of The Twentieth Annual Simulation Conference, pp. 112-124, 1987.
4. (with S Shen), "An AI Approach to Schedule Generation in a Flexible Manufacturing System," Proceedings of the Second ORSA/TIMS Special Interest Conference on Flexible Manufacturing Systems: Operation Research Models and Applications, at The University of Michigan, Ann Arbor, Michigan, August, 1986.
5. (with R.S. Sullivan), "Lot Sizing in Flexible Assembly Systems," Proceedings of the Second ORSA/TIMS Special Interest Conference on Flexible Manufacturing Systems: Operation Research Models and Applications, at The University of Michigan, Ann Arbor, Michigan, August, 1986.

6. (with H. Matso and R. Sullivan), "Evaluating the Introduction of Flexibility into A Job Shop System," The Japan-U.S.A. Symposium on Flexible Automation, at Osaka, Japan, July, 1986.
7. (with R.S. Sullivan and U. Bagchi), "Experimental Investigation of Quasi-Realtime Scheduling in Flexible Manufacturing Systems," Proceedings of the First ORSA/TIMS Special Interest Conference on Flexible Manufacturing Systems: Operation Research Models and Applications, at The University of Michigan, Ann Arbor, Michigan, August, 1984.
8. (with R.S. Sullivan), "Stochastic Aspects of Flexible Manufacturing Systems: Research Opportunities and Issues," 1983 Proceedings National AIDS Annual Conference, San Antonio.
9. (with Johnny Ho), "Heuristics for Minimizing Mean Tardiness for Parallel Machine," 1990 Proceedings National DSI Annual Conference, San Diego.
10. (with Johnny Ho), "Production scheduling incorporation in material requirements planning," Proceedings of Asia-Pacific Decision Sciences Institute, Hong Kong, 663–670, 1996.
11. (with Johnny Ho), "An MRP and JIT integration framework," Proceedings of Southwest Decision Sciences Institute, New Orleans, 170–173, 1997.
12. (with Johnny Ho), "Heuristic algorithms for scheduling operations in MRP – Flowshop case," Proceedings of Southwest Decision Sciences Institute, New Orleans, 69–71, 2001.
13. (with Johnny Ho), "Heuristic algorithms for scheduling operations in MRP – Jobshop case," Proceedings of Southeast Institute for Operations Research and Management Sciences, Myrtle Beach, CD-ROM, 2001.

This article won the *Best Paper Award* for the Production and Operations Management Track at the Southeast INFORMS Conference, 2001.
14. (with Johnny Ho), "An evaluation of heuristic algorithms for cellular manufacturing systems," Proceedings of Midwest Decision Sciences Institute, Oxford, OH, 42–44, 2003.
15. (with Ho, J.C. and Solis, A.O.), "Efficient lot-sizing procedures for material requirements planning systems," Proceedings of Decision Sciences Institute, National DSI Conference, Washington, DC, November 2003.

16. (with Su, C. P. and Ferguson, M.), “The Impact of Delayed Differentiation in Make-to-Order Environments”, Proceedings of Decision Sciences Institute, National DSI Conference, Washington, DC, November 2003.
17. (with Ho, J.C. and Solis, A.O.), “Effects of deteriorating inventory on lot-sizing: A comparative analysis of heuristics for MRP systems,” Proceedings of Decision Sciences Institute, Boston, CD-ROM, November 2004.
18. (with Su, C. P. and Ho, J. C.), “Evaluation of component commonality strategies,” Proceedings of Decision Sciences Institute, Boston, CD-ROM, November 2004.
19. (with Andrew Manikas), “A Genetic Algorithm to Solve Sequence Dependent Job Shop Scheduling Problems“ at INFORMS SE, **won best student paper**, and have proceedings for the 41st annual meeting, Oct 6-7, 2005 Myrtle Beach, SC.
20. (with Andrew Manikas) “Effective Work Ordering in a Constrained Manufacturing Environment” Proceedings of the 36th International Conference on Computers and Industrial Engineering, Taipei, Taiwan, 2006.
21. (with Andrew Manikas) “Job Shop Rescheduling Due to Unplanned Supply Chain Disruptions via Scatter Search” Proceedings of POMS, Boston, Massachusetts, 2006.
22. (with Andrew Manikas and M. Ferguson) “A Heuristic for Commodity Procurement in the Presence of Price Discounting” Proceedings of POMS, Dallas, Texas, 2007.
23. (with Andrew Manikas) “The Importance of Using Historical Commodity Spot Purchase Prices” Proceedings of Decision Sciences Institute SE, Savannah, Georgia, 2007.

COURSES TAUGHT

Quality Control and Improvement
 Intelligent Manufacturing Systems
 AI and Expert Systems
 Operations Management
 Operations Control and Scheduling
 Computer Models in Operations Management
 Operations Information Systems
 Operations Design

Computer Organization
 Data Base
 FORTRAN Language
 Microcomputers
 RPG Language
 COBOL Language
 PL/1 Language
 Statistics
 Management Sciences
 Operations Planning and Control

PROFESSIONAL ACTIVITIES

- Guest Editor (2002-2004) for *Asia-Pacific Management Review* Special Issue on e-Business and Management
- Reviewed research proposals for Taiwan National Science Council's Program for Promoting Academic Excellence of Universities in 2005
- Reviewed the tenure and promotion cases for many schools
- Editorial Board for *IEEE Transactions on Engineering Management*
- Paper Reviewer for *Decision Sciences*, *Journal of Operation Management*, *IEEE Transactions in Engineering Management*, *European Journal of Operation Research*, *Journal of Supply Chain Management*, *Journal of Productivity Analysis*, *Production Planning and Control*, *Asia-Pacific Management Review*, *Computers & Industrial Engineering*, *International Journal of Production Economics*, *International Journal of Production Research*, *Management Science*, *Operations Research*, *Annuals of Operation Research*, *Canadian Journal of Operational Research and Information Processing*, *IIE Transactions*, *Interfaces*, *OR Letters*, *Journal of Intelligent Manufacturing*, *Journal of Information Resource Management*, *Naval Research Logistics*
- Member of INFORMS (INstitute For Operation Research and Management Science)