

Curriculum Vitae: Chin-Yin Huang 黃欽印

Executive Master Program for Health
Administration
Department of Industrial Engineering and
Enterprise Information
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Education

BSIE Industrial Engineering, Tunghai University, Taiwan
MSIE Industrial Engineering, Purdue University, USA
Ph.D Industrial Engineering, Purdue University, USA

Academic/Professional Appointments

Chairman, International Foundation for Production Research-Asia Pacific Region, December
2010-Present
Professor, Department of Industrial Engineering & Enterprise Information, Tunghai University,
2011-Present
Professor, Executive Master Program for Health Administration, Tunghai University, 2011-Present
Board Member, Asia Pacific Industrial Engineering and Management Society, December
2012-Present
Dean, General Affairs, Tunghai University, March 2011-July 2013
Director, Executive Master Program for Health Administration, Tunghai University, 2003-2011
Associate Professor, Department of Industrial Engineering & Enterprise Information, Tunghai
University, 2003-2011
Secretary, TC 5.2, International Federation of Automatic Control, 1999-2007
Secretary in General, Dean Office of Research and Development, Tunghai University, 2003-2005
Counselor, Taiwan Tobacco and Liquor Corporation, 2006-2008
Assistant Professor, Department of Industrial Engineering & Enterprise Information, Tunghai
University, 1999-2003

Research Interests

Healthcare Management, Clinical Data Analysis, Distributed Manufacturing Systems, Manufacturing
Process Optimization, Manufacturing Execution Systems

Courses Taught

Engineering Graphics, Facilities Planning, Data Mining, Manufacturing Execution Systems, Medical Data Analysis

Journal Publications and Handbook Chapters

1. Tsai, J. C. H., Cheng, C. W., Weng, S. J., Huang, C. Y., Yen, D. H. T., Chen, H. L., Comparison of Risks Factors for Unplanned ICU transfer after ED Admission in Patients with Infections and Those without Infections, *The Scientific World Journal*, paper submitted, 2013. (SCI)
2. Tsai, J. C. H., Weng, S. J., Huang, C. Y., Yen, D. H. T., Chen, H. L., Feasibility of using the PIRO Concept of Sepsis to Predict the Risk of Unplanned ICU transfer after ED Admission, *Journal of the Chinese Medical Association*, paper submitted, 2013. (SCI)
3. Lin, P. K. P., Huang, C. Y., THIS - A Top-down Hybrid Intelligence Stock Forecasting Algorithm, *European Journal of Operational Research*, paper submitted, 2013. (SCI)
4. Chen, W. L., Huang, C. Y., Huang, C. Y., Finding efficient frontier of process parameters for plastic injection molding, *Journal of Industrial Engineering International*, 10.1186/2251-712X-9-25, 9: 25, 2013.
5. Hsieh, L.P., C.Y. Huang, Trends in the use of antiepileptic drugs in Taiwan from 2003 to 2007: A Population-Based National Health Insurance study, *Epilepsy Research*, Vol. 96, pp. 81-88, 2011. (SCI)
6. Huang, C.C., C.Y. Huang, S.Y. Nof, Designated Communication for Collaborative Production, *International Journal of Production Research*, paper in revision, 2011.
7. Huang, C.Y., W.L. Chen, C.M. Cheng, C.Y., Pan, Product quality prognosis in plastic injection moulding, *Production Engineering*, Vol. 5, No. 1, pp. 59-71, 2011. (EI)
8. Chen, W.L., C.Y. Huang, C.W. Hung, Optimization Process of Plastic Injection Molding Operations by Dual Response Surface Method Combined with Non-Linear Programming Technique, *Engineering Computations*, Vol. 27, No. 8, pp. 951-966, 2010. (SCI)
9. Huang, C.C., C.Y. Huang, M.H. Chan, Extending Product Lifecycle Analysis of PLM by Integrating LCA, *Hsiuping Journal*, Vol. 21, pp. 41-62, 2010.
10. Huang, C. Y., Yang, T. T., Chen, W. L., and Nof, S. Y., "Reference Architecture for Collaborative Design", *International Journal of Computers, Communication and Control*, Vol. 5, No. 1, pp 71-90, 2010. (SCI)
11. Huang, C.Y., T.S. Huang, and W.L. Chen, Communication Protocols for Order Management in Collaborative Manufacturing. *International Journal of Production Economics*, Vol. 122, No. 1, pp. 257-268, 2009. (SCI)
12. Huang, C. Y., Medical Informatics, *Handbook of Automation*, S. Y. Nof (Ed.), pp. 1423-1432, Springer, 2009.
13. Chuang, S.W., C.Y. Pan, and C.Y. Huang, A System Oriented Analysis Model to Enhance Patient Safety in Healthcare Organizations. *Systems Engineering*, Vol. 12, No. 3, pp. 218-232, 2009. (SCI)
14. Chen, W.L., C.Y. Huang, and Y.J. Lai, Multi-Tier and Multi-Site Collaborative Production: Illustrated by a Case Example of TFT-LCD Manufacturing. *Computers & Industrial Engineering*, Vol. 57, No. 1,

15. Chen, S.S., S.L. Tsai, C.Y. Huang, Medical care utilization in long-term-care organizations in Central Taiwan, *Taiwan J Public Health*. 2009, Vol. 28, No. 3, pp. 175-183, 2009. (TSSCI)
16. Hsieh, L.-P. and C.Y. Huang, Antiepileptic drug utilization in Taiwan: analysis of prescriptions using National Health Insurance database. *Epilepsy Research*, Vol. 84, No. 1, pp. 21-27, 2009. (SCI)
17. Huang, C. Y., Transition of Survival Curves for Female Early-Stage Breast Cancer, *Engineering Science & Technology Bulletin*, Vol. 98, pp. 68-71, 2008.
18. Hsieh, L.-P. and C.Y. Huang, Prevalence of treated epilepsy in western medicine among the adult population in Taiwan: A study conducted using antiepileptic drug prescription data. *Epilepsy Research*, 2008. 80: p. 114-118. (SCI)
19. Huang, C.Y., C.C. Huang, and C.Y. Liu, Order confirmation mechanism for collaborative production networks. *International Journal of Production Research*, 2008. 46(3): p. 595-620. (SCI)
20. Huang, C.Y. and Y.W. Wu, Decision model for partnership development in virtual enterprises. *International Journal of Production Research*, 2003. 41(9): p. 1855-1872. (SCI)
21. Huang, C.Y., Distributed manufacturing execution systems: A workflow perspective. *Journal of Intelligent Manufacturing*, 2002. 13(6): p. 485-497. (SCI)
22. Huang, C.Y. and S.Y. Nof, Evaluation of agent-based manufacturing systems based on a parallel simulator. *Computers & Industrial Engineering*, 2002. 43(3): p. 529-552. (SCI)
23. Huang, C. Y. and Nof, S. Y., Automation Technology, *Handbook of Industrial Engineering: Technology and Operations Management*, G. Salvendy (Ed.), 3rd Ed., pp. 155-176, John Wiley & Sons, 2001.
24. Huang, C.Y. and S.Y. Nof, Autonomy and viability-measures for agent-based manufacturing systems. *International Journal of Production Research*, 2000. 38(17): p. 4129-4148. (SCI)
25. Huang, C.Y., J.A. Ceroni, and S.Y. Nof, Agility of networked enterprises - parallelism, error recovery and conflict resolution. *Computers in Industry*, 2000. 42(2-3): p. 275-287. (SCI)
26. Huang, C.Y. and S.Y. Nof, Formation of autonomous agent networks for manufacturing systems. *International Journal of Production Research*, 2000. 38(3): p. 607-624. (SCI)
27. Vincent, D. A., Ceroni, J. A., Huang, C. Y., Marco, M. A., Williams, N. P., *Robotics Around the World*, *Handbook of Industrial Robotics*, S. Y. Nof (ed.), 2nd edition, John Wiley and Sons, 1999.
28. Huang, C.Y. and S.Y. Nof, Enterprise Agility: A View from the PRISM Lab. *International Journal of Agile Management Systems*, 1999. 1(1): p. 51-59.
29. Huang, C. Y. and Nof, S. Y., *Intelligent Control*, *Industrial Engineering Encyclopedia*, A. Mital (ed.), ISBN 0-9654599-0-X, 1999.
30. Huang, C. Y. and Nof, S. Y., *Models of Material Handling and Robotics Modeling Manufacturing Systems: From Aggregate Planning to Real-Time Control*, P. Brandimarte and A. Villa (Eds.), pp. 139-159, Springer, 1999.
31. Huang, C. Y. and Nof, S. Y., *Robots*, *Industrial Engineering Encyclopedia*, A. Mital (ed.), ISBN 0-9654599-0-X, 1999.
32. Huang, C.Y. and S.Y. Nof, Development of integrated models for material flow - Design and control - a tool perspective. *Robotics and Computer-Integrated Manufacturing*, 1998. 14 (5-6): p.

Conference Articles

1. Huang, C. Y., Chen, W.L., Lin, Y. C., Impact of Information Sharing on the Partner's Profitability in a Two-Level Supply Chain, 22nd International Conference on Production Research, Iguassu Falls, Brazil, 2013.
2. Chen, W. L., Lin, S. Y., Huang, C. Y., Manufactory-Centralized Supply Network Planning by Distributed Parallel Computing, 2012 IFPR-APR Joint Conference, Phuket, Thailand.
3. Lin, P. K. P., Huang, C. Y., Weng, S. J., Jiang, Y. C., Fixture Demanding Simulation Model For An EMI Inline Sputtering System, 2012 IFPR-APR Joint Conference, Phuket, Thailand.
4. Huang, C.Y., W.L. Chen, S.C. Yeh, Supply Network Planning for Memory Module Industry by Distributed Parallel Computing, 21st International Conference on Production Research, Stuttgart, Germany, 2011.
5. Huang, C.Y. , W.L. Chen, W.J. Huang , Communication Protocols for Collaborative Production Planning, Asia Pacific Industrial Engineering & Management Systems (APIEMS) Conference, Melaka, Malaysia, December 2010.
6. Cheng, P.J., C.Y. Huang, Distributed Order Promising System Based on CLIPS and Conservative Synchronized Algorithm, Southern Taiwan University, Tainan, Taiwan, 2010.
7. Huang, C.Y., T.T. Yang, W.L. Chen, S.Y. Nof, Open Architecture for Collaborative Design, Asia Pacific Industrial Engineering & Management Systems (APIEMS) Conference, Kitakyushu, Japan. December 2009.
8. Huang, M.C., Huang, C.Y., A Study of Healthcare Resources Utilization for Mid-Taiwan Asthma Patients, CIIE Conference, Feng-Chia University, Taichung, Taiwan, December 2009.
9. Huang, C.C. and Huang, C.Y., Valued Communication for Collaborative Production, 20th International Conference on Production Research, Shanghai, China, August, 2009.
10. Huang, C.Y., Chen, W. L., and Chen, J. M., Communication Protocols for Collaborative Forecasting, IFIP Working Conference on Virtual Enterprises (PRO-VE'08), Poznan , Poland , 2008 (SCI).
11. Chen, M.H., C.Y. Huang, Extending Product Lifecycle Analysis of PLM by Integrating LCA, CIIE Conference, Chung Yuan Christian University, Taoyuan, Taiwan, December 2008.
12. Huang, C.Y., Huang, T. S., and Chen, W. L., Communication Protocols for Order Management in Collaborative Manufacturing, the 19th International Conference on Production Research, Pontifical Catholic University of Valparaiso, Chile, 2007.
13. Lai, X.Y., C.Y. Huang, The Distributed Production Planning for LED Industry, CIIE Conference, Hsinchu, Taiwan, December 2005.
14. Huang, C. C. and Huang, C. Y., Communication Principles for Collaborative Production, the 18th International Conference on Production Research, University of Salerno, Italy , 2005.
15. Chang, Y. J. and Huang, C. Y., Applications of Wireless Communication in Automated Manufacturing Systems, the 18th International Conference on Production Research, University of Salerno, Italy, 2005.
16. Huang, C. Y. and Huang, R. R., Applying Data Mining Techniques to Improve Run by Run Control of Chemical-Mechanical Polishing, the 18th International Conference on Production Research,

University of Salerno, Italy, 2005.

17. Nof, S. Y., Ceroni, J. A., and Huang, C. Y., Collaborative e-Work: Three Design Principles, ICPR-AR, Santiago, Chile, Aug. 2004.
18. Huang, C. Y. and Wen, C. C., Intelligent Fault Detection and Diagnosis in Manufacturing Execution Systems, 17th International Conference of Production Research, Virginia , 2003.
19. Lee, M. Y. and Huang, C. Y., "The Decision Process of Partner Selection for Virtual Enterprise ," The Fourth Asia-Pacific Conference on Industrial Engineering and Management Systems, 2002.
20. Huang, C. Y., "The Development of Medical Information Exchange Systems Based on an HL7-Reference Database," The Fourth Asia-Pacific Conference on Industrial Engineering and Management Systems, 2002.
21. Huang, C. Y., "Production Planning for Supply Networks: A Distributed Computing Approach," 16th International Conference on Production Research, 2001.
22. Huang, C.Y. and Wu, Y. W., "A Study of Partnership Life Cycle in Supply Chain Systems," CIIE, Tainan, Taiwan, 2001.
23. Huang, C. Y. and Nof, S. Y., "Teamwork Integration Evaluation/Agent—A Simulator for Agent-Based Manufacturing Systems," Sixth International Conference on Automation Technology, Vol. 2, pp. 1161-1167, 2000.
24. Huang, C. Y. and Nof, S. Y., "Viability—A Measure for Agent-Based Manufacturing Systems," 15th International Conference on Production Research, 1999.

Book

1. T. Chan, J.S. Hon, M.J. Yao, and C.Y. Huang, Industrial Engineering & Management (in Chinese), Chien-Cheng Publishing Co., 2004.
2. T. Chan, J.S. Hon, M.J. Yao, and C.Y. Huang, An Introduction to Industrial Engineering & Management (in Chinese), Chien-Cheng Publishing Co., 2013.

Working papers

1. Huang, C.Y., W.L. Chen, C.Y. Chang, Simultaneous Warpage and Shrinkage Optimization of a Cellular Phone Cover using Integrated Artificial Neural Networks and Genetic Algorithm, Polymer-Plastics Technology and Engineering, working paper.
2. Kuo, D.C., S.L. Tsai, C.Y. Huang, Association between surgeon volume and hospital charge for CABG Patients Reimbursed by Case-payment Mechanism in Taiwan, working paper.
3. Chen, W.L, C.Y. Huang, R.R. Huang, Applying data mining techniques to improve run by run control of chemical-mechanical polishing, working paper.

Awards

1. Paper Award, A Study of Healthcare Resources Utilization for Mid-Taiwan Asthma Patients, CIIE Conference, 2009.
2. Teaching Excellence Award, Tunghai University, 2008.
3. Project Award, Ministry of Education, 2002.

4. Teaching Innovation Award, Tunghai University, 2001.
5. MCB University Press, Highly Commended Award, 1999.
6. Project Awards, National Science Council, Taiwan: 1999, 2000.

Research Grants

1. Impact of Information Sharing in Profits for Upstream and Downstream Companies, 2013-2014, National Science Council, Taiwan.
2. Value of Information Sharing in Supply Chains--From a Perspective of Profit, 2012-2013, National Science Council, Taiwan.
3. Distributed Production Order Promising System based on Conservative Synchronization Algorithm for the Array Process of TFT-LCD Manufacturing, 2010-2011, National Science Council, Taiwan.
4. A Testbed for Ad Hoc Enterprise Communication Protocols of Distributed Production, 2009-2010, National Science Council, Taiwan.
5. Communication Protocols for Collaborative Production, 2007-2008, National Science Council, Taiwan.
6. Developing a Collaborative Production Model for LED Industry, 2006-2007, National Science Council, Taiwan.
7. Transition of Survival Curves for Female Early-Stage Breast Cancer 2005-2006, National Science Council, Taiwan.
8. Using Association Rules to Refine EWMA Controller for CMP Process 2005-2006, National Science Council, Taiwan.
9. Agile and Flexible Manufacturing Execution Systems for Precision Machinery Industry II, 2004-2005, National Science Council, Taiwan.
10. Applying Rough Sets Theory in Knowledge Discovery for Records of Breast Cancer Patients, 2004-2005, National Science Council, Taiwan.
11. Applications of Wireless Communication in Automated, 2003-2004 TEFA.
12. The Development of Multi-Site Production Planning based on Factory Planner and Agent Technology. 2003-2004 National Science Council, Taiwan.
13. Agile and Flexible Manufacturing Execution Systems for Precision Machinery Industry I, 2003-2004, National Science Council, Taiwan.
14. Development of Robust, Distributed, and Collaborative Manufacturing Systems, 2002-2003 National Science Council, Taiwan.
15. Production Planning for Distributed and Collaborative Organizations, 2001-2002 National Science Council, Taiwan.
16. Agent-Based Supply Chain Partnership, 2000-2001, National Science Council, Taiwan.

Professional Memberships

1. IFPR
2. IFAC-TC 5.2

3. SOCOLNET
4. PRISM, Purdue University
5. CIIE
6. Omega-Rho
7. Phi-Tau-Phi

Professional Activities

1. Guest Editor: *International Journal of Production Economics*
2. Referee: *International Journal of Production Research, International Journal of Production Economics, Computers and Industrial Engineering, Computers in Industry, IEEE SMC, Production Planning and Control, European Journal of Industrial Engineering, Journal of Intelligent Manufacturing, CIIE Transactions, Handbook of Industrial Engineering, Handbook of Industrial Robotics, Handbook of Automation, IFAC World Congress, CIIE Conference, Cheng Ching Medical Journal*
3. Review Member, National Science Council, Taiwan.
4. CIIE Session Chair, 2009
5. ICPR International Program and Advisory Committee, 2009, 2013.
6. CIIE Conference, Chair of Paper Review Board, 2005
7. Preliminary Grant Reviewer, National Science Council, 2003-
8. Board Member of Examination, Examination Yuan of Taiwan, 2003, 2011
9. APIEMS Session Chair, 2002.
10. IFAC Workshop on Intelligent Assembly and Disassembly, International Program Committee, 2001
11. ICPR Session Chair, 2001

Speeches in Industries

1. *Data Mining in Medicine*: Taichung Veterans General Hospital, Changhua Christian Hospital, Cheng-Ching Hospital, Bureau of National Health Insurance.
2. *Application of Balanced Score Card in the Hospital*: Taichung Veterans General Hospital, Cheng-Ching Hospital, Show-Chwan Memorial Hospital
3. *Epidemiology*: Taichung Veterans General Hospital
4. *Supply Chain Management*: Yungshin Group, Formosa Advanced Technologies Co., Dragon Steel Co.
5. *Material and Inventory Management*: Taiwan Tobacco and Liquor Co.

Speeches in Academia

1. Designated Communication Principles for Collaborative Production, National Tsing Hua University
2. *Rough Sets Theory*: Providence University, National Chin-Yi University of Technology
3. *Virtual Enterprises*: Providence University, Chaoyang University of Technology