

Lie-Fern Hsu

Associate Professor of Management

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Education:

BS	National Chiao-Tung University, Taiwan	Management Science	1980
MBA	Washington State University	Business Administration	1983
MS	Case Western Reserve University	Operations Research	1985
PhD	Case Western Reserve University	Operations Research	1987

Areas of Expertise:

Quality Control, Reliability, and Maintenance of Queue-Like Production Systems

Selected Publications:

Hsu, L.F., "Note on Construction of Double Sampling s-Control Charts for Agile Manufacturing," *Quality and Reliability Engineering International*, Published Online: 9 May 2006 (<http://www3.interscience.wiley.com/cgi-bin/jissue/97519103>).

Hsu, L.F., "Note on 'Design of Double- and Triple-Sampling X-bar Control Charts Using Genetic Algorithms,'" *International Journal of Production Research*, 42, 5 (2004), 1043-1047.

Hsu, L.F., "Simultaneous Determination of Preventive Maintenance and Replacement Policies in a Queue-Like Production system with Minimal Repair," *Reliability Engineering and System Safety*, 63 (1999), 161-167.

Hsu, L.F., and Kuo, S., "Design of Optimal Maintenance Policies Based on On-Line Sampling Plans," *European Journal of Operational Research*, 86 (1995), 345-357.

Hsu, L.F., and Tapiero, C.S., "Inspection of an Unreliable Flexible Manufacturing System: with Repairable Parts and Non-Negligible Inspection Times," *Production Planning and Control*, 5, 4 (1994), 360-371.

Hsu, L.F., and Kuo, S., "Optimal Replacement Schedules in a Queue-Like Production System with Minimal Repair," *Reliability Engineering and System Safety*, 46 (1994), 189-198.

Lin, C., Chien, T.W., Hsu, L.F., and Spiccas, G., "Design of Inspection Policy in an Assembly Oriented Flexible Manufacturing System," *Journal of Information and Optimization Sciences*, 15, 3 (1994), 311-336.

Hsu, L.F., Tapiero, C.S., and Lin, C., "Network of Queues Modeling in Flexible Manufacturing Systems: A Survey," *Recherche Operationnelle/Operations Research*, 27, 2 (1993), 201-248.

Hsu, L.F., and Tapiero, C.S., "Integration of Process Monitoring, Quality Control and Maintenance in an M/G/1 Queue-Like Production System," *International Journal of Production Research*, 30, 10 (1992), 2363-2379.

Hsu, L.F., "Optimal Preventive maintenance Policies in an M/G/1 Queue-Like Production System," *European Journal of Operational Research*, 58 (1992), 112-122.

Hsu, L.F., "Optimal Preventive Maintenance Policies in a Serial Production System," *International Journal of Production Research*, 29, 12 (1991), 2543-2555.

Son, Y.K., and Hsu, L.F., "A Method of Measuring Quality Costs," *International Journal of Production Research*, 29, 9 (1991), 1785-1794.

Hsu, L.F., and Tapiero, C.S., "An Economic Model for Determining the Optimal Quality and Process Control Policy in a Queue-Like Production System," *International Journal of Production Research*, 28, 8 (1990), 1447-1457.

Hsu, L.F., and Tapiero, C.S., "Quality Control of an Unreliable Flexible Manufacturing System: with Scrapping and Infinite Buffer Capacity," *The International Journal of Flexible Manufacturing Systems*, 1 (1989), 325-346.

Hsu, L.F., and Tapiero, C.S., "Quality Control of the M/G/1 Queue," *European Journal of Operational Research*, 42, 1 (1989), 88-100.

Hsu, L.F., and Tapiero, C.S., "A Bayes Approach to Quality Control of an M/G/1 Queue," *Naval Research Logistics*, 35 (1988), 327-343.

Hsu, L.F., and Tapiero, C.S., "Maintenance of an Unreliable M/G/1 Queue-Like Job Shop," *Queueing Systems: Theory and Applications*, 2 (1987), 333-350.

Tapiero, C.S., and Hsu, L.F., "Quality Control of an Unreliable Random FMS: with Bernoulli & CSP Sampling," *International Journal of Production Research*, 26, 6 (1988), 1125-1135.

Tapiero, C.S., and Hsu, L.F., "Quality Control of the M/M/1 Queue," *International Journal of Production Research*, 25, 3 (1987), 447-455.

Tapiero, C.S., and Hsu, L.F., "Randomized Quality Control of a 2-Station Machining Process with Blocking," *IEEE Transactions on Reliability*, R-35, 4 (1986), 455-458.

Aggarval, V., Tilokz, V.G., and Hsu, L.F., "Bottleneck Assignment Problems under Categorization," *Computers and Operations Research*, 13 (1986), 11-26.

Academic Activities:

Secretary/Treasurer, Alpha Iota Delta, National Honor Society for Decision Sciences, 1999-2002.

Faculty Advisor, Rho Chapter, Alpha Iota Delta, National Honor Society for Decision Sciences, 1989-98.

Professional Activities:

Has reviewed papers for the following journals:

Computers and Operations Research

European Journal of Operational Research

IEEE Transactions on Reliability

IIE Transactions

INFOR

International Journal of Flexible Manufacturing Systems

International Journal of Mathematics and Mathematical Science

International Journal of Production Research

International Transactions in Operational Research

Management Science

Operations Research

OPSEARCH

Reliability Engineering and System Safety

Awards, Honors, etc.:

Member, Omega Rho, International Honor Society for Operations Research.
