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EDUCATION:

Ph.D. in Mechanical Engineering, University of California, Berkeley (1985).

M.S. in Mechanical Engineering, University of California, Berkeley (1983).

B.S. in Chemical Engineering, National Taiwan University, Taipei, Taiwan (1979).

EXPERIENCE:

2004-present, Professor, The George W. Woodruff School of Mechanical Engineering, Georgia Institute of Technology

1993-2003, Associate Professor, The George W. Woodruff School of Mechanical Engineering, Georgia Institute of Technology

1988-1993, Assistant Professor, The George W. Woodruff School of Mechanical Engineering, Georgia Institute of Technology

1986-1988, Visiting Assistant Professor, Department of Mechanical and Aerospace Engineering, Syracuse University

CURRENT RESEARCH SUPPORT:

Enabling Technologies for Lean Manufacturing of Critical Hardened Steel Applications, NIST

Neuro-Fuzzy Self-learning Controller with Stability as an Objective, NSF - pending

AWARDS:

2000, Outstanding Paper Award, IEEE Transactions on Fuzzy Systems

1994, Sigma Xi Best Research Paper Award

1992, Sima Xi Junior Faculty Award

RECENT COLLABORATORS:

W.J. Wang, C.L. Hwang, C.I. Ume, F. Mistree, J. Allan

RECENT STUDENTS ADVISED:

J.S. Chen, J. Fenchel, T.S. Lee, D.H. Kim.

SELECTED PUBLICATIONS:

1. Chen, Y.H., and Han, M.C., "Decentralized Control Design for Interconnected Uncertain Systems", Dynamic Systems and Control, C.T. Leondes (ed.), Academic Press, New York, 1993, pp. 219-266.

2. Chen, Y.H., Chuang, C.H., "Robust Control for a Class of Coupled Uncertain Systems," *Optimal Control Applications and Methods*, Vol. 18, No. 2, pp. 83-108, 1997.

3. Fenchel, J., Chen, Y.H., "Stable, Real-Time Scheduling Policies for Multi-Model Flexible Manufacturing Systems", *IEEE/ASME Journal of Mechatronics,* Vol. 2, No. 1, pp. 8-21, 1997.

4. Chen, Y.H., "Second order constraints for equations of motion for constrained mechanical systems," *IEEE/ASME Transactions on Mechatronics,* 1999, Vol. 3, pp. 240-248.

5. Bajodah, A.H., Hodges, D.H., and Chen, Y.H., "Stabilization of nonlinearly constrained unreduced Kane's equations of motion," *AIAA Journal of Guidance, Control, and Dynamics,* vol. 26, no. 1, Jan.-Feb. 2003, pp. 79-88.