

Ye-Hwa Chen

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Georgia Institute of Technology, Atlanta, Georgia, 30332-0405

EDUCATION:

Ph.D. in Mechanical Engineering, University of California, Berkeley, 1985 (advisor: G. Leitmann)

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

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

PROFESSIONAL EXPERIENCE:

1993–present Associate Professor of Mechanical Engineering, Georgia Tech

1996–1999 Head of Automation and Mechatronics Group, Georgia Tech

1988–1993 Assistant Professor of Mechanical Engineering, Georgia Tech

ACADEMIC HONORS:

Department Commendation, First Honor of Ph.D. Examination in Dynamics and Control Group, Mechanical Engineering, UC Berkeley, 1982; GT Sigma Xi Junior Faculty Research Award, 1991; GT Sigma Xi Outstanding Research Award, 1994; IEEE Neural Networks Council 2001 IEEE Transactions on Fuzzy Systems Outstanding Paper Award, 2001

SCIENTIFIC ADVISORY COMMITTEES:

Reviewers for 21 journals, 1988-present

Editorial Board, International Journal of Intelligent Automation and Soft Computing, 1997 - 2001

Regional Editor (North America), Nonlinear Dynamics and Systems Theory: An International Journal, April 1999-present

GRADUATE AND POSTDOCTORAL ADVISING (in past 5 years):

Ph.D. students: D.H. Kim, J. Fennchel, T.S. Lee, A. Bajodah, J.S. Park

Postdoctorals: M.C. Han, C.C. Wong, W.J. Wang, C.L. Huang

CURRENT RESEARCH SUPPORT:

NIST APT-011442

SELECTED PUBLICATIONS:

1. Chen, Y.H., "Partial Compensation for uncertain discrete systems," *Dynamics and Control*, v.10, n.1, 2000, 47-61.
2. Chen, Y.H., "Control design of uncertain systems under fuzzy disturbance," *Revista Brasileira de Ciencias Mecanicas*, V. XIX, No. 2, 242-252, 2000.
3. Chen, Y.H., "Approximate Reasoning Mechanism: Internal, External, and Hybrid," *Journal of Intelligent and Fuzzy Systems*, Vol. 8, 2000, pp. 121-133.
4. Chen, Y.H., Wang, W.J., and Chiu, C.H., "New estimation method for the membership values in fuzzy sets," *Fuzzy Sets and Systems*, Vol. 112, 521-526, 2000.
5. Joh, J., Chen, Y.H., and Langari, R., "On the Stability Issues of Linear Takagi-Sugeno Fuzzy Models," *IEEE Transactions on Fuzzy Systems*, Vol. 6, 223-231, 1998.
6. Hwang, C.-L., Jan, C. and Chen, Y.H., "Piezomechanics using intelligent variable-structure control," *IEEE Transactions on Industrial Electronics*, Vol. 48, February 2001, 47-59.