

CURRICULUM VITA

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Department of Electrical and Computer Engineering
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CITIZENSHIP: U. S. A.

PERSONAL: Married, 3 Children

EDUCATION

<u>Institution</u>	<u>Concentration</u>	
<u>Degree/Date</u>		
Purdue University, West Lafayette, Indiana	Electrical & Comp. Eng.	Ph.D., 1988
The University of Michigan, Ann Arbor, Michigan	Electrical & Comp. Eng.	M.S., 1985
National Taipei Inst. of Technology	Electrical Engineering	B.E. 1979

(Passed National Government Executive Officer Exam and Professional Engineering Exam, 1979;
1979 國家公務人員高等考試 和 電機技師 及格)

ACADEMIC EXPERIENCE

<u>Institution</u>	<u>Position</u>	<u>Dates</u>
The University of Texas Electrical and Computer Eng. College of Engineering	Chair	April 2007 – Present
	Interim Chair	April 2006 –March 2007
	Associate Dean and Interim Chair	April 2006 –Aug. 2006
	Associate Dean	May, 2005 -Aug. 2006
	Ph.D. Program Director	2004-2005
The University of Texas, Electrical and Comp. Eng.	Professor	2002-Present
Wright State University, Computer Science and Eng.	Professor	1999-2002
Wright State University, Computer Science and Eng.	Associate Professor	1995-1999
Wright State University, Computer Science and Eng	Assistant Professor	1989-1995
Indiana University-Purdue University at Indianapolis	Visiting Assistant Professor	1988-1989
Purdue University	Research Assistant	1985-1988
The University of Michigan	Research/Teaching Assistant	1983-1985

(Passed Ph.D. Qualification Exam during MSEE)

OTHER EXPERIENCE

<u>Institution</u>	<u>Position</u>	<u>Dates</u>
ABET (Accreditation Board of Engineering and Technology Education)	Evaluator	2008-
Beijing Institute of Tech. (China)	Honorary Visiting Professor	Summer, 2006
Beijing Normal University (China)	Honorary Visiting Professor	Summer, 2000
NASA Glenn Research Center Wright Lab, ARL	Research Faculty Fellow Research Fellow	Summer, 1998, 1999, 2002 1994-2001
Wright-Patterson AFB	National Research Council Research Faculty	1995-1996 Summer, 1993, 2001
Yasukawa Electrical, Inc. (Japan)	Engineer	1982-1983

PROFESSIONAL MEMBERSHIP

<u>Association</u>	<u>Status</u>	<u>Dates</u>
The Institute of Electrical and Electronic Engineers, (IEEE)	Fellow	2007-present
IEEE Systems, Man, and Cybernetics Society	Vice President , Conferences and Meetings,	2010-
IEEE Systems, Man, and Cybernetics Society	Vice President , Technical Activities,	2008-2009
The Inst. of Elec. & Electronic. Eng. (IEEE)	Member, Senior Member	1988-1994-2006
Eta Kappa Nu , Beta Chapter (Honored)	Member	1987-present
Tau Beta Pi , Ohio Mu Chapter (Honored)	Member	1979 (inducted)
American Society of Engineering Education	Member	2002-present

PROFESSIONAL AWARDS

<u>Title of Award</u>	<u>Granting Association</u>	<u>Dates</u>
Research Initial Award	National Science Foundation	1990
Research Fellow	National Research Council	1995-1996
Research Excellent Faculty Award	College of Eng. & CS	1997
Best Paper Awards (runner-up)	ANNIE Conference	2000 and 2001
Outstanding Contribution Award	IEEE SMC Society	2008
4 th place	AT&T Big Mobile on Campus Challenge	2008
General Chair of IEEE SMC annual conference	IEEE SMC Society	2009

PRINTED SCHOLARSHIP

Books

- H. Li, C. L. Philip Chen, and Han-Pang. Huang, *Fuzzy Neural Intelligent Systems: Mathematical Foundation and Application to Engineering*, CRC Press, 2000, ISBN 0-8493-2360-6, 392 pages.

- C. L. Philip Chen, *Introduction to Computer Communication Design*, Laboratory Manual, Wright State University, 1994, 48 pages.

Edited Books

- C. Dagli, M. Akay, C. L. Philip Chen, B. R. Fernandez, and J. Ghosh, *Intelligent Engineering Systems Through Artificial Neural Networks: Fuzzy Logic and Evolutionary Programming*, ASME Press, 1995, 1034 pages.
- C. Dagli, M. Akay, C. L. Philip Chen, B. R. Fernandez, and J. Ghosh, *Smart Engineering System Design: Neural Networks, Fuzzy Logic, and Evolutionary Programming*, ASME Press, 1996, 1152 pages.

Refereed Journals

1. L. Chen, C. L. Philip Chen, W. Pedrycz, "A Gradient-descent-based Approach for Transparent Linguistic Interface Generation in Fuzzy Models," **IEEE Trans. on Systems, Man, and Cybernetics**, Part B, accepted to appear, 2009.
2. D. Akopian, A. Melkonyan, and C. L. Philip Chen, "Validation of HDOP (Horizontal Dilution Of Precision) Measure for Impact Detection in Sensor-Based Structure Health Monitoring," **IEEE Sensors Journal**, Vol. 9, No. 9, September, 2009, pp. 1098-1102.
3. Tao Wei, Y. F. Huang, and C. L. Philip Chen, "Adaptive Sensor Fault Detection and Identification Using Particle Filter Algorithms," **IEEE Trans. on Systems, Man, and Cybernetics**, Part C, Vol. 39, No. 2, March 2009, pp. 201-213.
4. Y. Lin, X. Chen, J. Liu, Z. Yuan, G. Collins, C. L. Chen, J. C. Jiang, E. I. Meletis, C. L. P. Chen, A. Bhalla, and M.W. Cole, "Highly Epitaxial Ferroelectric Lead Strontium Titanate ((Pb, Sr)TiO₃) Thin Films With Extra Large Dielectric Tunability: A Good Candidate for Room Temperature Tunable Microwave Elements," *Integrated Ferroelectrics*, Taylor & Francis, Vol. 100, Oct, 2008, pp. 1-15.
5. Y. Xiao, H. Chen, H. Chen, B. Sun, and C. L. P. Chen, "Optimal Utilization and Effects of Inaccurate Estimation in Mobile Database Failure Restoration," **IEEE Trans. on Wireless Communications**, Vol. 6, No. 6, June 2007, pp. 2086-2095.
6. C. L. P. Chen and T-H Guo, "Design of Intelligent Optimal Acceleration Schedules for Extending Life of Aircraft Engines", **IEEE Trans. on Systems, Man, and Cybernetics**, Part C, Vo. 37, No. 5, September 2007, pp. 1005-1015.
7. Paul Cotae, Sireesha Yalamanchili, C. L. Philip Chen, and Arturo Ayon, "Optimization of sensor locations and sensitivity analysis for engine health monitoring using minimum interference algorithms", *Eurasip Journal on Advances in Signal Processing (Special Issue on Distributed Signal Processing Techniques for Wireless Sensors Networks)*, Oct. 2007, Volume 2008.
8. Y. Xiao, H. Li, C. L. P. Chen, B. Wang, and Y. Pan, "Proportional Degradation Services in Wireless/Mobile Adaptive Multimedia Networks," *Journal of Wireless Communications and Mobile Computing*, John Wiley & Sons, Vol. 5, No. 2, Feb. 2005, pp. 219 - 243.
9. B. Wang, X. Su, and C. L. P. Chen, A Bandwidth Guaranteed Integrated Routing Algorithm in IP over WDM Optical Networks, *Photonic Network Communications*, Vol. 5, No. 3, May, 2003, pp. 227-247.
10. T-H Guo, C. L. Philip Chen, Duane L. Mattern, and Link C. Jaw Model-Based Sensor Validation for a Turbofan Engine using Auto-Associative Neural Networks, *Journal of Smart Engineering Systems*, Vol. 5, 2003, pp. 21-32, Taylor and Francis Press.

11. Ping Guo, M. R. Lyu, and C. L. Philip Chen, Regularization Parameter Estimation Based on Bayesian-Kullback Data Smoothing Theory for Feedforward Neural Networks, **IEEE Trans. on Systems, Man, and Cybernetics**, Part B, Vol. 33, No. 1, 2003, pp. 35-44.
12. V. Schmidt and C. L. P. Chen, Using the Aggregate Feedforward Neural Network for Rule Extraction, *International Journal of Fuzzy Systems*, Vol. 4, No. 4, 2002, pp.795-807.
13. Ping Guo, C. L. Philip Chen, and Michael R. Lyu," Cluster Number Selection for a Small Set of Samples using the Bayesian Ying-Yang Model", **IEEE Transactions on Neural Networks**, Vol. 13, No. 3, 2002, pp. 757-763.
14. Y-C. Chen and C. L. Philip Chen, "Proper Clamping Sequences in the Fixturing of Prismatic Workpieces," *Journal of Design and Manufacturing Automation*, Vol. 1, No. 4, 2002, pp. 283-300, CRC Press.
15. Yang Xiao, C. L. Philip Chen, and B. Wang, "Bandwidth Degradation QoS for Adaptive Multimedia in Wireless/Mobile Networks", *Computer Communications*, Vol. 25, pp. 1153-1161, 2002, Elsevier Science.
16. Yang Xiao, C. L. Philip Chen, and Yan Wang, Admission Control and Bandwidth Reallocation for Multi-Classes Adaptive Multimedia Services in Wireless/Mobile Networks, *Institute of Electronics, Information, and Communication Engineers (IEICE) Trans. on Communication, Special Issue on Mobile Multimedia Communication*, Vol. E84-B, No.4, pp.795-804, April, 2001.
17. Q. He, H. Li, C. L. Philip Chen, and E. S. Lee, Extension Principles and Fuzzy Set Categories, *International Journal of Computers and Mathematics with Applications*, Pergamum Press, Vol. 39, 2000, pp. 45-53.
18. H. Li, C. L. Philip Chen, V. C. Yen, and E. S. Lee, Factor Spaces Theory and its Applications to Fuzzy Information Processing: Two Kinds of Factor Space Canes, *International Journal of Computers and Mathematics with Applications*, Pergamon Press, Vol. 40, 2000, pp. 835-843.
19. H. Li, C. L. Philip Chen, and E. S. Lee, Factor Spaces Theory and Fuzzy Information Processing: Fuzzy Decision Making Based on the Concepts of Feedback Extension, *International Journal of Computers and Mathematics with Applications*, Pergamon Press, Vol. 40, 2000, pp. 845-864.
20. H. Li and C. L. Philip Chen, The Interpolation Mechanism of Fuzzy Control and its Relationship to PID Control, *International Journal of Fuzzy Systems*, Vol. 2, No. 1, March 2000, pp. 23-30.
21. H. Li and C. L. Philip Chen, "The Equivalence Between Fuzzy Logic Systems and Feedforward Neural Networks," **IEEE Transactions on Neural Networks**, Vol. 11, No. 2, March, 2000, pp. 356-365.
22. H. Li and C. L. Philip Chen, "DFE Method of Fuzzy Decision-Making: An Approach Based on Factor Spaces Theory," *Fuzzy Sets and Systems*, Elsevier Science, 2000.
23. H. Li, C. L. Philip Chen, and E. S. Lee, "Mathematical Essence and Structures of Neural Networks and Fuzzy Neural Networks -- Part 1: On Forward Neural Networks," *International Journal of Mathematical Analysis and Applications*, 1999.
24. H. Li, C. L. Philip Chen, and E. S. Lee, "Mathematical Essence and Structures of Neural Networks and Fuzzy Neural Networks -- Part 2: On Functional-Link Neural Networks," *International Journal of Mathematical Analysis and Applications*, 1999.
25. P. Guo, A. A. S. Awwal, and C. L. P. Chen, "Dynamics of a Coupled Double-Cavity Optical Interference Filter," *Journal of Modern Optics*, Vol. 49, No. 1, pp. 167-174, 1999.
26. C. L. P. Chen and J. Z. Wan, "A Rapid Learning and Dynamic Stepwise Updating Algorithm for Flat Neural Networks and its Application to Time-Series Prediction," **IEEE Trans. on Systems, Man and Cybernetics**, Part B, Vol. 29, No.1, pp. 62-72, 1999.

27. C. L. P. Chen, Y. Cao, and S. R. LeClair, "Materials Structure-Property Prediction using a Self-Architecting Neural Network," *Journal of Alloys and Compounds*, 279, pp. 30-38, 1998.
28. C. L. P. Chen, S. R. LeClair, and Y-H. Pao, "An Incremental Adaptive Implementation of Functional-Link Process: for Function Approximation, Time-Series Prediction, and System Identification," *Neurocomputing, an International Journal*, Vol. 18, pp. 11-31, 1998.
29. C. L. P. Chen and Y. Lu, "FUZZ: A Fuzzy-Based Concept Formation System that Integrates Human Categorization and Numerical Clustering," **IEEE Trans. on Systems, Man and Cybernetics**, Part B, Vol. 27, No. 1, pp. 79-94, 1997.
30. C. L. P. Chen, "A Rapid Supervised Learning Neural Network for Function Interpolation and Approximation," **IEEE Trans. on Neural Networks**, Vol. 7, No. 5, pp. 1220-1230, 1996.
31. H. N. Al-Kamhawi, C. L. P. Chen, and S. R. LeClair, "Feature Sequencing in the Rapid Design System Using a Genetic Algorithm," *Journal of Intelligence Manufacturing*, Vol. 7, No. 1, pp. 55-67, 1996.
32. C. L. P. Chen and S. Xie, "A Freedhand Drawing System using Fuzzy Concepts," in *Computer Aided Design*, Volume 28, Number 2, pp. 77-89, 1996.
33. P. Guo, C. L. P. Chen, and Y. G. Sun, "AHLN Algorithm: Perfect Learning through Data Representation," *Journal of Beijing Normal University*, Vol. 32, No. 1, pp. 71-75, 1996.
34. Q. W. Yan, C. L. P. Chen, and Z. Tang, "An Efficient Algorithm for Automatic Reconstruction of 3-D Objects from Orthographic Projections," *Computer-Aided Design*, Vol. 26, No. 9, pp. 699-717, 1994.
35. C. L. P. Chen and S. R. LeClair, "An Integration of Design and Manufacturing: Solving Setup Generation and Feature Sequencing Using Unsupervised Learning Approach," *Computer-Aided Design*, Vol. 26, No. 1, pp. 59-75, 1994.
36. C. L. P. Chen and Y. H. Pao, "An Integration of Neural Network and Rule-Based Systems for Design and Planning of Mechanical Assemblies," **IEEE Trans. on Systems, Man and Cybernetics**, Vol. SMC-23, No. 5, Sept/Oct., pp. 1359-1371, 1993.
37. C. L. P. Chen and C. A. Wichman, "A Systematic Approach for Design and Planning of Mechanical Assemblies," *Artificial Intelligence for Engineering, Design, Analysis, and Manufacturing*, Vol. 7, No. 1, pp. 19-36, 1993.
38. C. L. P. Chen, "Design of a Real-Time AND/OR Assembly Schedule on an Optimization Neural Network," *Journal of Intelligent Manufacturing*, Vol. 3, No. 4, pp. 251-261, 1992.
39. T. E. Westhoven, C. L. P. Chen, Y-H. Pao, and S. R. LeClair, "Solving Sequences of Interactive Features Using the Episodal Associative Memory," *Artificial Intelligence for Engineering, Design, Analysis, and Manufacturing*, Vol. 6, No. 3, pp. 177-197, 1992.
40. C. L. P. Chen, "Automatic Generation Assembly Sequences by Pattern-Matching," **IEEE Trans. on Systems, Man and Cybernetics**, Vol. SMC-21, No. 2, March/April, pp. 376-389, 1991.
41. C. S. G. Lee and C. L. Chen, "Efficient Mapping Algorithms for Scheduling Robot Inverse Dynamics Computation on a Multiprocessor System," **IEEE Trans. on Systems, Man and Cybernetics**, Vol. SMC-20, No. 3, May/June, pp. 582-595, 1990.
42. C. L. Chen, C. S. G. Lee and E. S. H. Hou, "Efficient Scheduling Algorithm for Robot Inverse Dynamics Computation on a Multiprocessor System," **IEEE Trans. on Systems, Man and Cybernetics**, Vol. SMC-18, No. 5, September/October, pp. 729-743, 1988.
43. C. L. Chen, C. S. G. Lee and C. D. McGillem, "Task Assignment and Load Balancing of Autonomous Vehicles in a Flexible Manufacturing System," **IEEE Transaction on Robotics and Automation**, Vol. RA-3, No. 6, pp. 659-671, December, 1987.

Chapters in Books

1. Yang Xiao, C. L. Philip Chen, and Yan Wang, "Call Admission Control and Bandwidth Reallocation Algorithm for Multi-Classes of Adaptive Multimedia Services in Wireless/Mobile Networks", *Multiaccess, Mobility and Teletraffic for Wireless Communications Volume 5*, Edited by Gordon L. Stber and Bijan Jabbari , Kluwer Academic Publishers, pp. 365-376, November, 2000.
2. T-H. Guo and C. L. Philip Chen, "Neural Networks Based Sensor Validation for Aircraft Engines," to appear in *The Handbook of Applied Computational Intelligence*, Edited by M. L. Padgett N. B. Karayiannis, and L. A. Zadeh, CRC Press, 2000.
3. C. L. P. Chen and S. Xie, "A Fuzzy Freedhand Drawing System," in *Fuzzy Information Engineering: A Guided Tour of Applications*, Edited by D. Dubois, H. Prade, and R. Yager, John Wiley & Sons, pp. 31-52, 1997.
4. C. L. P. Chen, "Setup Generation and Feature Sequencing Using an Unsupervised Learning Algorithm," in *Neural Networks in Design and Manufacturing*, Edited by J. Wang and Yoshiyasu Takefuji, World Scientific Publisher Inc., pp. 135 162, 1993.

Patents

1. S. R. LeClair, Y. H. Pao, T. E. Westhoven, H. N. Al-Kamhawi, C. L. Philip Chen, A. G. Jackson, A. C. Chemaly, "*Inductive-Deductive Process Design for Machined Parts*," Air Force Invention number 21134, U.S. Patent number 5485390, Jan., 1996.
2. Y. Cao, C. L. P. Chen, and S. R. LeClair, "*Orthogonal Functional Basis Method for Function Approximation*," U.S. Patent number 6463361, Sept., 2002; Air Force Invention No. D00211, June, 1999.

Papers Published in Full in Official Proceedings

1. Mei-Ching Chen, Anuradha Roy, Benjamin M. Rodriguez, Sos Aгаian, C. L. Philip Chen, "An Application of Linear Mixed Effects Model to Steganography Detection", *Proceedings of 2009 IEEE International Conference on Systems, Man, and Cybernetics*, pp. 1844-1848, San Antonio, Texas.
2. Mingzhu Lu, C. L. Philip Chen, Huo Jianbing, Xizhao Wang, "Multi-Stage Decision Tree Based on Inter-class and Inner-Class Margin of SVM, *Proceedings of 2009 IEEE International Conference on Systems, Man, and Cybernetics*, pp. 1944-1949, San Antonio, Texas.
3. Mingzhu Lu and C. L. Philip Chen, "The Design of Multi-Agent Based Distributed Energy Systems," *Proceedings of 2009 IEEE International Conference on Systems, Man, and Cybernetics*, pp. 2070-2075, San Antonio, Texas.
4. Arsen Melkonyan, David Akopian, C. L. Philip Chen, "A Sensor Placement Measure for Impact Detection in Structural Health Monitoring," *Proceedings of 2009 IEEE International Conference on Systems, Man, and Cybernetics*, pp. 3875-3878, San Antonio, Texas.
5. Yunji Wang, C. L. Philip Chen, and Y. Jin, "Trajectory Planning for An Unmanned Ground Vehicle Group Using Augmented Particle Swarm Optimization in a Dynamic Environment," *Proceedings of 2009 IEEE International Conference on Systems, Man, and Cybernetics*, pp. 4451-4456, San Antonio, Texas.

6. Grant Huang, Arpine Soghoyan, David Akopian, C. L. Philip Chen, Abhay Samant, "Land Mobile Channel Modeling in LabVIEW," *Proceedings of 2009 IEEE International Conference on Systems, Man, and Cybernetics*, pp. 4712-4717, San Antonio, Texas.
7. Mei-Ching Chen, Sos S. Aghaian, Philip Chen, Benjamin M. Rodriguez, "Alpha-Trimmed Image Estimation for JPEG Steganography Detection," *Proceedings of 2009 IEEE International Conference on Systems, Man, and Cybernetics*, pp. 4718-4722, San Antonio, Texas.
8. Arsen Melkonyan, David Akopian, C. L. Philip Chen, "A Remote Over-Internet Hands-on Laboratory," *Proceedings of 2009 IEEE International Conference on Systems, Man, and Cybernetics*, pp. 4779-4785, San Antonio, Texas.
9. Xiaoyan Xu, Yinzong Ye, C. L. Philip Chen, "On Control of Power Supply Process of Marine Shaft Generator," *Proceedings of 2009 IEEE International Conference on Systems, Man, and Cybernetics*, pp. 4921-4924, San Antonio, Texas.
10. Yi Guo, Wei Feng Shi, C. L. Philip Chen, "Direct Torque Control Theory of Double Three-Phase Permanent Magnet Synchronous Motor," *Proceedings of 2009 IEEE International Conference on Systems, Man, and Cybernetics*, pp. 4925-4930, San Antonio, Texas.
11. Mingzhu Lu, C. L. Philip Chen, J. B. Hou, and X. Z. Wang, "Optimization of Combined Kernel Function for SVM based on Large Margin Learning Theory", *Proceedings of 2008 IEEE International Conference on Systems, Man, and Cybernetics*, pp. 353-358, Singapore, 2008.
12. Mei-Ching Chen, S. Aghaian, and C. L. P. Chen, "Generalized Collage Steganography on Images", *Proceedings of 2008 IEEE International Conference on Systems, Man, and Cybernetics*, pp. 1043-1047, Singapore, 2008.
13. Mei-Ching Chen, S. Aghaian, and C. L. P. Chen, "Noise Reduction Algorithms using Fibonacci Fourier Transforms", *Proceedings of 2008 IEEE International Conference on Systems, Man, and Cybernetics*, pp. 1048-1052, Singapore, 2008.
14. Long Chen and C. L. Philip Chen, "Transparent Linguistic Interface Generation and its Application in Fuzzy Decision Trees", *Proceedings of 2008 IEEE International Conference on Systems, Man, and Cybernetics*, pp. 1337-1342, Singapore, 2008.
15. J. Dia, C. L. Philip Chen, and X. Y. Xu, "Vibration Monitoring on Coll-Roll Pess Machin for Fault Diagnosis and Process Control", *Proceedings of 2008 IEEE International Conference on Systems, Man, and Cybernetics*, pp. 3595-3600, Singapore, 2008.
16. Aleksandr Panchul, David Akopian, and C. L. Philip Chen, "Development of Symbian Smartphone Based Public Vigilance System," *WAC 2008 International Symposium on Intelligent Automation and Control (ISIAAC 2008)*, 2008.
17. Long Chen and C. L. Philip Chen, "Gradient Pre-shaped Fuzzy C-means Algorithm (gradpfc) for Transparent Membership Function Generation," 2008 International Conference on Fuzzy Systems (FUZZ2008), in *2008 IEEE World Congress on Computational Intelligence (WCCI2008)*.
18. Mei-Ching Chen, S. Aghaian, C. L. P. Chen, and B. Rodriguez, "Steganography Detection using RBFNN," *International Conference of Machine Learning and Cybernetics (ICMLC), July 12-17, 2008*.
19. M. Gunturu, D. Akopian, P. Chen, "An Education Oriented WLAN Positioning Testbed", abstract accepted to *ASEE Annual Conference*, June 2008, Pittsburgh, PA
20. M. Gunturu, D. Akopian, P. Chen, "An WLAN-Positioning based authentication method", *SPIE Defense and Security Conference*, March 2008, Orlando, FL.
21. M. Gunturu, P. Sagiraju, D. Akopian, P. Chen, "A WLAN Positioning Testbed", *UTSA 2007 ESB Student Conference*, Nov 9, 2007; *IEEE PLANS 2008 Conference*, Monterey, CA.

22. D. Akopian, P. Chen, S. Miryakar, "PreNotiS: Massive Preventive Notification System," accepted to 2008 *SPIE Defense and Security Conference*, March 2008, Orlando, FL.
23. L. Chen and C. L. Philip Chen, "Preshaped Fuzzy C-Means Algorithm (PFCM) for Transparent Membership Function Generation," *Proceedings of 2007 IEEE International Conference on Systems, Man, and Cybernetics*, pp. 389-394, Montreal, Canada, Oct. 7-10, 2007.
24. S. S. Agaian, C. L. Philip Chen, and Juan P. Perez, "Feedback Steganalysis Decision Making System," *Proceedings of 2007 IEEE International Conference on Systems, Man, and Cybernetics*, pp. 3352-3355, Montreal, Canada, Oct. 7-10, 2007.
25. L. Chen and C. L. Philip Chen, "Ensemble Learning Approach for Freeway Short-Term Traffic Flow Prediction," *Proceedings of 2007 IEEE/SMC International Conference on System of Systems*, pp. 163-168, San Antonio, TX, April 16-18, 2007.
26. S. S. Agaian, C. L. Philip Chen, M-C. Chen, "Fibonacci Fourier Transform and Sliding Window Filtering," *Proceedings of 2007 IEEE/SMC International Conference on System of Systems*, pp. 237-241, San Antonio, TX, April 16-18, 2007.
27. D. Akopian, P. Ybarra, and C. L. Philip Chen, "Optimization of Time-Varying Two-band Filterbanks for Wavelet Transforms," *Proceedings of 2007 IEEE/SMC International Conference on System of Systems*, pp. 260-264, San Antonio, TX, April 16-18, 2007.
28. P. Coate, S. Yalamanchili, and C. L. Philip Chen, "Optimization of Sensor Locations and Sensitivity Analysis for Engine Health Monitoring using Minimum Interference Algorithms," *Proceedings of 2007 IEEE/SMC International Conference on System of Systems*, pp. 297-302, San Antonio, TX, April 16-18, 2007.
29. L. Chen, W. Pedrycz, and C. L. Philip Chen, "Computational Intelligence Techniques for Building Transparent Construction Performance Models," *Proceedings of 2006 IEEE International Conference on Systems, Man, and Cybernetics*, pp. 1166-1171, Taipei, Taiwan, Oct. 8-11, 2006.
30. Wei Tao, Huang, Y. and Chen, C. L. P., "Particle Filtering for Adaptive Sensor Fault Detection and Identification", *Proceedings of 2006 IEEE International Conference on Robotics and Automation*, Orlando, FL, pp. 3807-3812, May 15-19, 2006.
31. C. L. Philip Chen, Jinwoo Kim, and Ten-Huei Guo, Monte Carlo Simulation for System Damage Prediction: An Example from Thermo-Mechanical Fatigue (TMF) Damage for a Turbine Engine, *Proceedings of 2006 IEEE/SMC International Conference on System of Systems*, Los Angeles, CA, pp. 30-34, April 24-26, 2006.
32. Tao, W, Huang, Y. Huang, and Chen, C. L. P., "Remaining Engine Life Estimation for a Sensor-Based Aircraft Engine", *Proceedings of 2005 IEEE International Conference on Systems, Man, and Cybernetics*, pp. 387-392, Hawaii, HI, Oct. 10-12, 2005.
33. Tao, W, Huang, Y. Huang, and Chen, C. L. P., "Sensor Validation for Flight Control by Particle Filtering", *Proceedings of European Signal Processing Conference*, 2005.
34. C.L.P. Chen and Y. Huang, "Sensor Validation for a Sensor-Based Aircraft Engine", *Intelligent Symposium on Health Monitoring*, CD Proceedings, Cincinnati, Ohio, August 8-11, 2005.
35. S. Adnan, Y. Chen, and C. L. P. Chen, Vortex Induced Vibration of Tubings and Pipings with non-linear Geometry, *SPE International Conference*, Houston, TX, Sept, 2005.
36. C. L. P. Chen, Z. Tanner, et. al, "Innovative Methods for Vehicle Health Monitoring, CD Proceedings, Santa Fe", NM, August 29-Sept. 2, 2005.
37. P. Cotae, Z. Pantic-Tanner, Z., C. L. P. Chen, C. Lacatus, C., and M. Aguirre, "Designing Optimal Signals for Total Capacity Minimization of Synchronous CDMA Channels", *Proceedings of the 2004 Wireless Networking Symposium*, 2005.

38. P. Cotae, Z. Pantic-Tanner, C. L. P. Chen, M. Aguirre, "Total Weighted Square Correlation of Multipath Multibase Synchronous DS-CDMA Systems", *Proceedings of the IEEE 2005 Vehicular Technology Conference*.
39. Y. Xiao, H. Li, C. L. P. Chen, B. Wang, and Y. Pan, "Achieving Proportional Degradation Areas for Wireless Adaptive Multimedia Networks," *IEEE 2004 GLOBECOM*, pp. 507-511, Dallas, TX USA, November/December 2004.
40. C. L. P. Chen, C. Bhumireddy, and P. Darvemula, Camera Motion Classification Using a Genetic Functional-Link Neural Network, *IEEE Int'l Conf. On Intelligent Robot and Systems*, pp. 2343-2348, Sept. 28-Oct. 2, 2004, Sendai, Japan.
41. T. Guo, C. L. P. Chen, and L. Jaw, Intelligent Life-Extending Controls for Aircraft Engines, Association of Aerospace and Avionic (AIAA), *Proceedings of Intelligent Systems*, Chicago, Aug. 20-22, 2004.
42. T. Guo and C. L. P. Chen, "Sensor Based Engine Life Calculation – A Probabilistic Approach," NASA TM-2003-212499, ISABE-2003-1147, *International Society of Air Breathing Engines (ISABE) Conference*, Cleveland, Ohio, September, 2003.
43. C. Bhumireddy and C. L. Philip Chen, Genetic Learning of Functional Link Networks, *Proceedings of IEEE International Conference on Neural Networks (IJCNN)*, Portland, OR, pp. 432-437, July 20-24, 2003.
44. C. L. Philip Chen and C. Bhumireddy, A Genetic Learning Algorithm for Generating a Parsimonious Functional Link Network, *IASTED International Conference on Neural Networks and Computational Intelligence*, pp. 179-184, Cancun, Mexico, May 19-21, 2003.
45. N. Reen, Ibrahim Tansel, P. Chen and C. Kropas-Hughes, Improvement of the Cost Estimation Accuracy of the Neural Network Based Systems by Automatically Removing Round Vertical Holes form STL Files, *Proceedings of Artificial Neural Networks in Engineering*, Nov. 10-13, 2002.
46. B. Wang, X. Su, and C. L. P. Chen, Bandwidth Guaranteed Integrated Routing and Wavelength Assignment Algorithm in IP over WDM Optical Networks, *Proceedings of SPIE Optical Communication*, Boston, July 30-August 1, 2002, pp. 223-234.
47. B. Wang, X. Su, and C. L. P. Chen, A New Bandwidth Guaranteed Routing Algorithm for MPLS Traffic Engineering, *Proceedings of IEEE International Conference on Communications (ICC'2002)*, pp. 1001-1005, Vol. 2, New York, April 2002.
48. H-X. Li and C. L. P. Chen, "Adaptive Fuzzy Controllers Based on Variable Universe Theory- Part 1: Theory and Property," *Proceedings of Artificial Neural Networks in Engineering*, Nov. 11-14, 2001, pp. 223-228. (**Best paper award first runner up in theoretical developments**)
49. Yang Xiao and C. L. Philip Chen, "Improving Degradation and Fairness for Mobile Adaptive Multimedia Wireless Networks", *Proceedings of The 10th IEEE International Conference on Computer Communications and Networks, (IEEE ICCCN'01)*, October 15-17, 2001, Phoenix, Arizona, USA.
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64. H. Li and C. L. P. Chen, "Relation between Fuzzy Controllers and PID Controllers," *Proceedings of International Conference on Intelligent Robots and Systems, (IROS) 1999*, Kyongju, Korea, pp. 94-99, Oct. 17-21, 1999.

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71. C. L. P. Chen and Y. Lu, "A Fuzzy-Based Concept Formation System for Categorization and Numerical Clustering," *Artificial Neural Networks in Engineering*, pp. 185-190, 1996.
72. Y. C. Chen and C. L. P. Chen, "On the Sequences of Clamping Prismatic Workpieces in Fixturing Processes," *Int'l Conf. on Automation Technology* 1996.
73. C. L. P. Chen and C-I. H. Chen, "Rapid Learning and Forecasting Using a Flat Neural Network for Circuit Design," *Proc. of 1996 IEEE International Symposium on Circuits and Systems*, pp. s18-s21, May 1996, Atlanta, GA.
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86. Ronald S. Chong and C. L. P. Chen, "Path Planning Using Elastic Sheet Paradigm," *Proc. of IEEE Int'l Conf. on Systems, Man, and Cybernetics*, pp. 1515-1520, Oct., 1994.
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90. C. L. P. Chen and Steven R. LeClair, "Unsupervised Neural Learning for Setup Generation in Process Planning," *Proc. of Int'l Conference on Artificial Neural Networks in Engineering*, pp. 663-668, Nov. 14-17, 1993.
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96. C. L. P. Chen and Q. Yan, "Design of an Assembly Planning System using Unsupervised Learning Algorithm," *Proc. of Int'l Joint Conference on Neural Networks*, June 7-11, Vol. II, pp. 436-441, 1992.
97. C. L. P. Chen and Y-H. Pao, "An Associative Memory Approach for Assembly Planning Systems," *Proc. of Int'l Joint Conference on Neural Networks*, Vol. III, pp. 36-41, June 7-11, 1992.
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105. C. L. P. Chen, "Time Lower Bound for Manufacturing Aggregate Scheduling Problems," *Proceeding of NSF 1991 Design and Manufacturing Grantees Conference*, pp. 685-691, Jan. 9-11, 1991.
106. C. L. P. Chen, "Intelligent Assembly Schedule System," *Proceeding of the 7th Int'l Conference on Systems Engineering*, pp. 493-500, July 18-20, 1990.
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108. C. L. P. Chen, "Neural Computation for Planning AND/OR Precedence-Constraint Robot Assembly Sequences," *Proc. of Int'l Joint Conference on Neural Networks*, Vol. I, pp. 127-142, June 17-21, 1990.
109. C. L. P. Chen, "Planning Optimal Precedence-Constraint Robot Assembly Sequence Problem with Neural Computation," *Proc. of SPIE Applications of Artificial Intelligence VIII*, pp. 320-331, April 1990.
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111. C. L. Chen, M. J. Palakal, and M. A. Penna, "Planning Robot Actions using Multi-Sensor Input," *Proc. of SPIE Advances in Intelligent Robotics Systems and Visual Communications and Image Processing*, pp. 14-24, November, 1989.
112. C. L. Chen and C. S. G. Lee, "Computational Structures for Robot Kinematics and Dynamics Computations," *Proceedings of ASME Int'l Computers in Engineering Conference*, Vol. 1, pp. 349-354, August, 1989.
113. C. S. G. Lee and C. L. Chen, "A CORDIC-Based Pipelined Architecture for Forward Kinematics Position Computation," *Proc. of IEEE Int'l Conference on Systems Engineering*, pp. 317-320 August 24-26 1989.
114. C. L. Chen and C. S. G. Lee "A Design of Pipeline Architecture for Computing Robot Direct Kinematics," *Proceedings of IEEE 32nd Midwest Symposium on Circuits and Systems*, pp. 625-628, August 14-16, 1989.
115. C. L. Chen "A Graph Partition Approach for Robot Assembly Sequences Generation," *Proceedings of IEEE 32nd Midwest Symposium on Circuits and Systems*, pp. 617-620, August 14-16, 1989.
116. C. L. Chen "Automatic Generation Assembly Sequences by Pattern-Matching," *Proceedings of IEEE Int'l Conference on Systems Engineering*, pp. 243-246 August 24-26 1989.

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118. C. L. Chen and C. S. G. Lee, "Mapping Precedence and Communication Relations of a Large Scale Computation on a Multiprocessor System," *Proc. of IEEE International Conference on Systems, Man, and Cybernetics*, pp. 370-375, November 14-17 1989.
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121. C. L. Chen, C. S. G. Lee, and C. D. McGillem, "Task Assignment and Load Balancing of Autonomous Vehicles in a Flexible Manufacturing System," *Proc. of 1987 IEEE International Conference of Robotics and Automation*, pp. 1033-1039, 1987.

Funded Grants and Contracts (in US Dollars)

Funding Agencies and Supporting Period Expressed as Gantt Chart

Sole PI: Over \$1 million; PI: about \$2 millions

Co-PI: Over \$4 millions

<u>Year</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>
<u>PI</u>	<u>NSF RIA</u>										
				<u>AFOSR</u>							
				<u>Air Force Wright Lab</u>							
	<u>Ohio</u>									<u>Ohio</u>	
<u>Co-PI</u>				<u>ONR</u>					<u>NSF</u>		
									<u>Ohio</u>		

<u>Year</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007-2009</u>	
<u>PI</u>	<u>Ohio</u>		<u>NASA</u>					
		<u>Changing Job</u>						
<u>PI</u>					<u>AFOSR</u>		<u>Texas</u>	

Recent

- **NASA, Glenn Research Center, PI (Sole)**, "Risk Analysis and Life Estimation for Sensor-Based Turbine Engines," NNC04GB35G, August, 2004— August, 2008.

- **AFOSR, PI**, “Innovative Methods for Engine Health Monitoring,” FA9550-04-0254, June, 2004- Nov. 2006.
- **AFOSR/CIAS, Co-PI**, Using advanced wireless and positioning technologies for intrusion detection and preventive security information systems, Dec. 2006 – Dec. 2007.
- **Texas State Coordinating Board of Higher Education, Co-PI**, “Engineering Core Curriculum Redesign for Increasing Preparedness and Retention,” (PI: Dr. Agrawal, Co-PIs: Shadaram, Chen, Akopian, Cotae, Jin, Quintana), April 2007- March 2009.
- **Texas State Coordinating Board of Higher Education, Co-PI**, “A Novel Ph.D. Joint Program Initiative Integrating Chemistry, Electrical Engineering, and Biomedical Engineering,” (PI: Dr. Ong, Co-PIs: Kurtz, Chen, Bhalla), August 2009-August 2012.
- **NSF, MRI, Co-PI**, “Infrastructure Improvement in Computer Engineering Education and Research”, (PI: Dr. Raju, Co-PIs: Patel, Chen, Lin), December, 2004 – August, 2005.
- **Note: Have submitted 19 additional federal grants during six years at UTSA (\$500K, \$1.2Mil, \$450K, \$200K, \$384K, \$382K, \$788K, \$508K, \$599K, \$504K, many ~\$1Mil), but were not funded.**

Past (all PI awards are sole-PI grants)

- **NASA, Glenn Research Center, PI**, “A Probabilistic Perspective Approach for Sensor-Based Engine Life Calculation,” May, 2003— May, 2004.
- **Ohio State Research Challenge Grant, PI**, "Aircraft Turbine Engine Life Prediction and Health Monitoring," WSU-664708, June, 2001 -- June, 2002.
- **Ohio State Research Challenge Grant, PI**, "Enhancement of Networks Control: An Intelligent Approach," WSU-663620, June, 1998 -- June, 2000.
- **Process, Materials, and Design, MLIM, Wright Laboratory, Wright-Patterson Air Force Base, PI**, "Discovery Automation Methods for Material/Processing Using Neural Networks," F33615-96-D-5835, Jan., 1999 -- Aug., 1999.
- **Process, Materials, and Design, MLIM, Wright Laboratory, Wright-Patterson Air Force Base, PI**, "Orthogonal Functional Neural Network," F33615-96-D-5835, Jan., 1997 -- Dec., 1998.
- **Process, Materials, and Design, MLIM, Wright Laboratory, Wright-Patterson Air Force Base, PI**, "Algorithmic Learning for Neural Networks and its Application to Processing and Design," F33615-94-D-5801, Dec., 1994 -- Dec., 1996.
- **Air Force Office of Scientific Research, PI**, "Self-Improving Methods for Materials and Process Systems," F49620-94-0277, Sept., 1994 -- Aug., 1998.
- **Manufacturing Research, Wright Laboratory, PI**, Wright-Patterson Air Force Base, "Self-Improving Methods for Materials and Process Design," F33615-92-D-5000, Jan. 1994 -- Dec. 1994.
- **Ohio State Research Challenge Grant, PI**, "An Induction and Deduction Systems," WSU-660913, August, 1994 -- August, 1995.
- **McBrown Co., PI**, “Development of Test Workstation,” Feb., 1993-- Jan. 31, 1994.

- **Manufacturing Research, Wright Laboratory, PI**, Wright-Patterson Air Force Base, "An Associative Memory-Based Approach for Feature Sequencing and Fixturing Design in Rapid Process Planning System," F33615-87-C-1550, Jan., 1992 -- Oct., 1993.
- **Ohio State Research Challenge Grant, PI**, "Memory-Driven Rapid Design Systems," WSU-662129, Sept., 1992 -- December, 1993.
- **National Science Foundation, Research Initiation Award**, DDM-9005755, **PI**, Develop a real-time assembly schedule with neural computation, July, 1990 -- August, 1992.
- **Ohio State Research Challenge Grant, PI**, Automatic precedence knowledge acquisition for assembly, WSU-660813, August, 1990 -- December, 1991.
- **Wright State University Alumni Foundation, PI**, Establishment of the IEEE Student Computer Society, WSU-550579, April, 1991 -- March, 1992.
- **DoD URI Research Initiation Program, Office of Naval Research, Co-PI** (PI, Dr. Gallimore) "Three-Dimensional Visualization and Interaction for Designing Manufactured Objects," N00014-92-J-4096, \$729,914, Oct. 1, 1992 -- Oct. 1, 1995.
- **National Science Foundation**, Acquisition Research Initiative, **Co-PI** (PI, Dr. Garcia, WSU), Development of Specialized Communications and Terminal Equipment for Research in Information Technology and Education Technology, \$241,000, June, 1996 - - August, 1998.
- **Ohio Board of Regents, Co-PI** (PI, Dr. Garcia, WSU/NTU), Information Technology Center Infrastructure, \$1.6 million, July, 1996 -- August, 1998.
- **Ohio Board of Regents, Co-PI** (PI, Dr. R. Jain, OSU), OCARNet Ohio Computing and Communication ATM Research Network, \$1.7 million, July, 1996 -- August, 1999.

INVITED TALKS

- Multimedia Security, SMC Vancouver Chapter, Canada, April 16, 2009.
- Multimedia Information Security: Overview of Research and Challenge, Department/Division of Computer Engineering, *Nanyang Technological University, Singapore, Oct 15, 2008.*
- Multimedia Information Security: Overview of Research and Challenge, Keynote speech at *International Conference of Machine Learning and Cybernetics (ICMLC)*, Kunming, China, July 12-17, 2008.
- Research in a Dynamic World: Department of Electrical Machinery Engineering, *Shanghai Maritime University*, China, July 9, 2008.
- Multimedia Information Security: An Overview of Research and Challenges, Keynote speech at *International Symposium on Systems Science and Engineering*, June 8-9, 2008, Taiwan.
- Optimal Acceleration Schedules for Life Extending and Adaptive Sensor Fault Detection and Identification, March 20-25, June 8-9, 2008, *National Taiwan Uni. of Science & Tech, National Taipei Univ. of Tech, National ChiNan Univ., JinWen Univ. of Tech*, Taiwan.

SELECTED WORKSHOPS AND TRAINING

- **Managing Department, Strategic Planning, ABET, etc**, ECE Department Head Association Annual Conference, week of March 20-23, 2005-2009.
- **Criteria for Accrediting Engineering Program (EAC)**, Phoenix, AZ, 16 May, 2008, IEEE/ASEE/ABET workshop.
- **IEEE Technical Activity Board (TAB)**, Presidents' Forum, Nov. 13-16, 2008, New Brunswick, NJ
- **IEEE Technical Activity Board (TAB), Panel of Conference Organizers (POCO)**, July 13-14, 2007, Hyatt Regency, Vancouver, BC, Canada.
- **IEEE Technical Activity Board (TAB) Finance Workshop and Tutorial**, March 11-12, 2007, Piscataway, NJ.
- **NSF/NASA Workshop for Higher Education**, February 22-24, 2007, Westfields Marriott, Chantilly, VA.
- **Criteria for Accrediting Engineering Program (EAC)**, Chicago, Illinois, 18 June, 2006, IEEE/ASEE/ABET workshop.
- **How to Recruit Graduate Students: Techniques, Strategies, and Secrets**, San Antonio, Texas, July 25-28, 2005, Graduate and Professional School Enrollment Management Co.
- **Chairing the Academic Department**, Nov. 2- Nov. 5, 2005, San Antonio, Texas, American Council on Education.

SERVICE AND ACADEMIC OUTREACH

Professional Service

ABET Evaluator (Accreditation Board for Engineering and Technology Education), 2008-

Elected Distinguished Lecturer, IEEE Systems, Man, and Cybernetics Society, 2008-

Experiences as editorial members, special issues, editors, etc.:

Associate Editor, *IEEE Transaction on Systems, Man, and Cybernetics, Part C*, 2006 -.

Associate Editor, *IEEE Journal of Systems Engineering*, 2006 - .

Editorial Board of *Journal of Enterprise Information Systems*, Taylor & Francis, 2006-2009.

Editorial Advisory Board of *International Journal of Intelligent Automation and Soft Computing*, TSI Press, 2006-2008.

Advisory Committee and Associate Editor, *International Journal of Smart Engineering System Design*, Gordon and Breach Publishers, Inc., Langhorne, PA, since 1992.

Elected Officer at Professional Society

Vice President of Technical Activities on Systems Science and Engineering, IEEE Systems, Man, and Cybernetics, (SMC) Society, 2008-2009, elected by IEEE SMC Board members

Board of Governors, IEEE Systems, Man, and Cybernetics, (SMC) Society, 2006-2008, elected by IEEE SMC members

Executive Members, IEEE Systems, Man, and Cybernetics, (SMC) Society, 2006-2009, elected by IEEE SMC Board members

IEEE SMC Society, Treasurer, 2006 – 2007

Founding Chair, IEEE SMC Central Texas Chapter, 2005- 2007

IEEE Computational Intelligence Society Representative to Nanotechnology Council, 2007-

Society and Conference service

National Science Foundation, Proposal Review Panelist (Regular and Career Awards), Robotics and Human Augmentation, CISE, 2006; Computing Research Infrastructure (CRI) 2005-2006.

Fellow Committee, IEEE Systems, Man, and Cybernetics Society, 2009.

General Chair, IEEE Systems, Man, and Cybernetics annual conference, San Antonio, Texas, 2009, SMC flagship conference, 1200+ papers.

General Co-Chair, IEEE Security System Integration and Reliability Improvement Conference, July 14-17, 2008, Yokohama, Japan.

Program Chair, International Conference on Machine Learning and Cybernetics, July 12-15, 2008, Kunming, China.

Publications Chair and Organizing Committee of IEEE Automation Science and Engineering Conference, Scottsdale, Arizona, September 22-25, 2007

Founding Technical Committee Co-Chairs: IEEE SMC TC on System of Systems, IEEE SMC TC on Information Assurance and Intelligent Mobile Computing, and IEEE TC on Enterprise Information Systems, 2006

Founding Chair, IEEE SMC Central Texas Chapter, 2005-2007

Program Co-Chairs, IEEE/SMC International Conference on Systems of Systems Engineering, April 24-26, Los Angeles, 2006

Organizing Committee, Publication Chair, IEEE World Congress of Computational Intelligence (WCCI 2006), Vancouver, Canada, May 21- 26, 2006

Organizing and Technical Committee of 2001-2006 [IEEE Int'l Conference on Robotics and Automation](#), May 21-26, 2001, Seoul, Korea; Taiwan, May, 2003, Orlando, 2006

Organizing Committee, Publications Chair, IEEE International Conference on Systems, Man, and Cybernetics, Hawaii, HI, Oct. 10-12, 2005

Organizing Committee, Publications Chair, IEEE/ASME 2005 Int'l Conferences on Advanced Intelligent Mechatronics, (AIM 2005), Monterey, California, July 24- 28, 2005

Program Committee, International Conference on Computational Intelligence, Nov. 20-22, 2006, San Francisco, CA.

Technical Committee of 1998- 2000, 2002-2005, [IEEE/RSJ Int'l Conference on Intelligent Robots and Systems](#), Oct. 12-16, 1998, Victoria, B.C., Canada; Oct. 17-21, 1999, Kyongju, Korea; Oct. 30-Nov. 5, 2000, Takamatsu, Japan, Setp. 30-Oct. 5, EPFL, Switzerland, 2002; **Organizing Committee and VCD Proceedings Chair, 2003-2005**, Oct. 27-31, 2003, Las Vegas, Nevada, September 28- Oct. 2, 2004, Sendai, Japan, Alberta, Canada.

Advisory Committee and Associate Editor, International Journal of Smart Engineering System Design, Gordon and Breach Publishers, Inc., Langhorne, PA, since 1992.

Guest Editor, Data Mining and Knowledge Discovery through Computational Intelligence, International Journal of Fuzzy Systems, Oct., 2002.

Technical Committee of 5th WSES/IEEE WORLD MULTICONFERENCE ON Circuits, Systems, Communications & Computers (CSCC 2001), Rethymnon, Crete (GREECE), July 8-15, 2001; and 3rd IMACS/IEEE International Multiconference on Circuits, Systems, Communications, and Computers, 1999.

Technical Committee of 1994-2004 Int'l Conference on Artificial Neural Networks in Engineering, Nov., St. Louis, MO. Session Chairman in a paper session at the 1991-2003, Int'l Conference on Neural Networks in Engineering, Nov. 1991-2004, St. Louis, MO.

International Technical Committee (Industrial and Manufacturing Systems) of CESA'98, Computational Engineering in Systems Applications, France, April 1-4, 1998.

Symposium Co-Chair of 1996 Adaptive Distributed Parallel Computing, Aug. 7-9, Dayton, Ohio.

Technical Committee of 1996 IEEE Int'l Conference on Robotics and Automation, April 22-28, 1996, Minneapolis, MN.

Conference Co-Chair of 1996 Int'l Conference on Neural Networks in Engineering, Nov. 10-Nov. 13, 1996-1998, St. Louis, MO.

Conference Co-Chair of 1995 Int'l Conference on Neural Networks in Engineering, Nov. 12-Nov. 15, 1995, St. Louis, MO.

Technical Committee of Ohio Aerospace Institute Neural Networks Symposium, Aug. 21-22, 1995, Athens, OH.

Symposium Co-Organizer, 1994 Symposium of Applications of Innovative Knowledge Bases in Materials Design, Nov. 28-Dec. 2, 1994, Boston, MA.

Tutorials Chair of 1994 IEEE Int'l Conf. on Neural Networks in IEEE World Congress on Computational Intelligence, June 26-July 2, 1994, Orlando, FL.

Technical Committee of 1994 Int'l Conference on Neural Networks in IEEE World Congress on Computational Intelligence, June 26-July 2, 1994, Orlando, FL.

Session Chairman in a paper session at the 1994 IEEE Int'l Conference on Systems, Man, and Cybernetics, Oct. 2-5, San Antonio, TX.

Session Chairman and Organizer in a paper session at the 1992 IEEE Int'l Conference on Systems, Man, and Cybernetics, Oct. 18-21, Chicago, IL.

Session Chairman and Organizer in a paper session at the 1991 IEEE Int'l Conference on Systems Engineering, Aug. 1-Aug. 3, Dayton, OH.

Session Chairman in a paper session at the 1989 ASME Int'l Computers in Engineering Conference, July 30-Aug. 3, Anaheim, CA.

Publications Referee for IEEE Transaction on Robotics and Automation, IEEE Transaction on Systems, Man, and Cybernetics, IEEE Transaction on Neural Networks, Pattern Analysis and Machine Intelligence, IEEE Transactions on Knowledge and Data Engineering, IEEE Transactions on Control Technologies, IEEE Control Magazine, IEEE Computer Magazine, Neural Networks, Smart Systems Design, Robotics, Computer-Aide Design, and Journal of Intelligent Manufacturing.

Publications Referee for IEEE Int'l Conf. On Neural Networks/Fuzzy Systems, IEEE/RSJ Int'l Conference on Intelligent Robots and Systems (IROS), Int'l Conference on Neural Networks, IEEE Int'l Conference on Robotics and Automation, IEEE Int'l Conference on Systems, Man, and Cybernetics, IEEE Control and Decision Conference, ASME Int'l Computers in Engineering Conference, and various conferences.

Internal Committee Service at The University of Texas at San Antonio

University Committee	Position	Dates
UFRAC (University Faculty Tenure Committee)	(elected)	2004-2006
Faculty Senate Academic Policy and Requirement	(elected)	2004-2006
Research Strategic Planning	Member	2006
Information Technologies	Member	2005-
College Committee	Position	Dates
College Executive Committee	Member	2005 -
Academic Policy and Curriculum Chair	(elected)	2002-2004
CFRAC (College Faculty Tenure Committee)	(elected)	2004-2006
Ph.D. Studies	Chair (appointed)	2004-2005
Faculty Advisory Committee	Member (elected)	2004-2005

Department Committee	Position	Dates
Graduate Program (Ph.D.)	Director/Chair (elected)	2004-2006
Undergraduate Curriculum	Chair	2005
Faculty Review Advisory	Chair (elected)	2002-2004
Faculty Search	Chair (elected)	2002-2003
Faculty Search (CS Dept.)	AA Member	2002-2003
Chairman Search	Chair (appointed)	2002-2003
ABET Materials Review Committee	Chair (appointed)	2003-2003

Internal Committee Service at Wright State University

University Committee	Position	Dates
Academic Council	Member	2006
Research Strategic Planning	Member	2006
UFRAC (P&T)	Member (elected)	2005
Student Affair	Member (appointed)	1995-1997
Calendar	Member (appointed)	1998-1999
Agenda	Member (appointed)	1999-2000
Tenured Removal	Member (appointed)	2001-2002

College Committee	Position	Dates
Executive Committee	Member (appointed)	2005-
Interim Chair & Chair	2006- 2007-	
Space Committee	Member	2006
Strategic Planning	Member	2006
ABET Planning	Member	2006
SACS Assessment Committee	Member	2007

Teaching Review	Member (appointed)	1995-1997
Scholarship	Member (appointed)	1997-2002
Faculty Development	Member (elected)	1999-2002

Department Committee	Position	Dates
Undergraduate Academic Petition	Member (appointed)	1990-2002
Graduate Studies	Member (appointed)	1990-2002
Ph.D. Studies	Member (appointed)	1990-2002
Promotion and Tenure	Member (granted)	1995-2002
Promotion and Tenure	College Rep. (elected)	2000-2002
Student Recognition/Awards	Chair (appointed)	1995-2002
Teaching and GTA/GRA	Member (appointed)	1990-2002
Chair Search	Member (appointed)	1993-1994
ITRI Director Search	Member (appointed)	1996-1996

GRADUATE STUDENTS SUPERVISION AS THE MAJOR PROFESSOR

Former Ph.D. Students

1. An Object-Oriented Architecture for a Hybrid Deliberate/Reactive Planning System for Robot Planning in Dynamic, Uncertain Environments, Todd M. Carrico, July, 1997, Currently as an IPA program manager, DARPA, Washington, D.C.
2. Adaptive Distributed Network Computing for Intelligent Systems Design, Yang Cao, Oct. 1997, Currently as a System Engineer, Lucent Technology, Networking Division, Boston, MA.
3. Connection-Level QoS Provisioning and Guarantees for Multimedia Services in Wireless/Mobile Networks, Yang Xiao, August, 2001. Currently Associate Professor at Department of Computer Science, University of Alabama, Tuscaloosa, AL. See <http://www.cs.ua.edu/~yangxiao/> . Editor-in-Chief of three international journals.
4. An Aggregate Connectionist Approach for Discovering Association Rules -- Vincent Schmidt, June, 2002. Currently is a research scientist at Wright-Patterson Air Force Base, Dayton, Ohio.
5. Global Synthesis of Highly Nonlinear Dynamic Systems with Limited and Uncertain Information, --Jason Polendo, Dec., 2006 (at UTSA with Dr. C. J. Qian)
6. Expectation Propagation Algorithm for inference in Dynamics Systems -- Tao Wei, Dec, 2007 (at UTSA with Dr. Y. F. Huang).

Current Ph.D. Students

7. Life Extending Control and Risk Analysis – Long Chen, 2009, expected
8. Staganalysis of Steganography images – Mei-Ching Chen (with Dr. Sos Agaian), 2009, expected.
9. Distributed Intelligent Multi-Agent Systems – Mingzhu Lu, 2010, expected.

Former MS Students (at UTSA)

1. Maheedhar Gunturu, "Integrity monitoring for WLAN positioning," with Dr. Akopian, MS thesis, August, 2008
2. A. Melkonyan, "Validation of HDOP Measure for Impact Localization in Structural Health Monitoring," August, 2008.
3. Raja Sekhar Pilli, "Performance evaluation of frequency and time domain correlators for spread spectrum receivers" with Dr. Dr. Akopian, Dec. 2007.
4. Susheel Miryakar "Development of mobile phone applications using J2ME: Preventive Notification System", with Dr. Akopian, Dec. 2007.
5. Prediction of an Engine Component Damage using Monte Carlo Simulation and Particle Filtering, Jinwoo Kim, Spring 2005.
6. Quadratic Stability of a Fuzzy Controller using Linear Matrix Inequality, Rohit Sharma, Fall 2004.
7. Indexing and Retrieval for Trail Surveillance of MPEG Video, Pavan Kumar Darvemula, Spring 2004.
8. Genetic Learning of Functional Link Neural Networks and Applications, Chandra Bhumireddy, Fall 2004.

Former MS Students (Total 20 at Wright State University)

9. Image Segmentation Using Active Contour and Neuro-Fuzzy Approaches: A Comparative Study on Brain Tumor Delineation, Anurag Jain, August, 2002.
10. Efficient Bandwidth Guaranteed Routing for MPLS Traffic Engineering, Xu Su, May, 2002.
11. Automatic Generation of Fuzzy Concept Hierarchy for Numerical Attributes Based on Density Clustering, Ying Hu, May, 2001.
12. Implementation Bitmap Index for Mining Association Rule Algorithms, Xin Liu May, 2001.
13. Genetic Scheduling of Batch Processing in a Multiple Machine Complex, John Collier June, 2000.
14. Development of Professional GUI Software for ATB3, Huai-Ning Cheng, March, 1999.
15. Enhanced Knowledge-Based Connectionism for Revising Domain Theories, Keith Andrews, Dec., 1996.
16. Mobile Robot Path Planning -- Vincent Schmidt, May, 1995.
17. A Fuzzy-set Based Concept Formation System, Yuan Lu, May, 1994.
18. Fuzzy Freehand Drawing System, Sen Xie, Dec., 1993.
19. The Use of OOA and OOD in the Development of a Process Control System Facilitating Concurrent Engineering, Larry Butcher, Dec., 1993.
20. An Automatic Boundary Solid Model Construction from Three Dimensional Data, Dan Hou, Oct., 1993.
21. An Intuitive Paradigm and its Application to 2-D Path Planning in Mobile Robots, Ronald S. Chong, July, 1993.
22. Feature Sequencing in the Rapid Design System using an Evolutionary Program, Hilmi N. Al-Kamhawi, June, 1993.
23. Implementation of Robust Algorithm for Compensation of Shutter Opening Induced Flux Transients for the Molecular Beam Epitaxy Process, Steve Adams, May, 1993.
24. An Intelligent Assembly Planning System, Qingwen Yan, Nov., 1992.
25. Development of an Anthropometric Statistical Analysis Package, Stephen E. Iddings, Aug., 1992.
26. Feature Sequencing in Process Planning Using the Episodal Associative Memory, Timothy E. Westhoven, Nov., 1991.
27. Mobile Robot Planning: A Study on Rule-Based and Case-Based Planning Systems, Sonali Rao, Aug., 1991.
28. A Rule-Based Approach to Automated Assembly Planning, Chas A. Wichman, May, 1991.

Former Visiting Scholars

1. Dr. HongXing Li, Beijing Normal University
2. Dr. Ping Guo, Beijing Normal University
3. Professor Juan Dai, Kunming University of Science and Technology
4. Dr. XiaoYan Xu, Shanghai Maritime University
5. Dr. Yi Guo, Shanghai Maritime University