

KAI H. CHANG

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1. EDUCATION

- Taipei Institute of Technology, Taiwan, June 1977
Diploma, Electrical Engineering.
- University of Cincinnati, December 1982
M.S., Electrical and Computer Engineering.
- University of Cincinnati, June 1986
Ph.D., Electrical and Computer Engineering.

2. EXPERIENCE

- SECOND LIEUTENANT, Chinese Army, Taiwan, 9/77 - 8/79.
Tactical Control Officer (TCO) of an air-defense missile unit.
- MICROCOMPUTER APPLICATIONS DESIGN ENGINEER, Pan-Asia Electronics Co., Taipei, Taiwan, 9/79 - 8/81.
*Designing microcomputer applications for machine automation.
Designing a sequential (process) control language, PASC.*
- ELECTRONICS ADVISOR, Department of Anesthesia, Medical Center of the University of Cincinnati, 10/81 - 12/82.
Designing and implementing an Apple-II Plus computer to record and analyze nerve impulse
- RESEARCH ASSISTANT AND COMPUTER SYSTEM MANAGER, Artificial Intelligence and Computer Vision Laboratory, University of Cincinnati, 1/83 - 6/86.
*Conducting research in artificial intelligence, image processing, and robotics.
Installing, testing, and maintaining computer systems, robotics systems, and various computer vision systems.*
- SUMMER FACULTY FELLOW, Marshall Space Flight Center, NASA, Huntsville, AL, 5/95 - 8/95.
Designing and implementing an expert system prototype for the AXAF-I Spacecraft.
- CHAIR, 8/2006 - present
ALUMNI PROFESSOR, 8/2004 – 8/2009
PROFESSOR, 9/98 - present
ASSOCIATE PROFESSOR 9/91 - 9/98.
GRADUATE PROGRAM OFFICER (GRADUATE DIRECTOR)(91-95, 6/97-8/05)
GRADUATE FACULTY, 6/6/89 - present.
ASSISTANT PROFESSOR, 8/86 - 9/91.
Department of Computer Science and Software Engineering, Auburn University
Auburn, AL 36849-5347

3. ENGINEER LICENSE

Electrical Power Engineer, License No. 6038, June 15, 1981, Industrial Development Bureau, Ministry of Economic Affairs, Taiwan.

4. SIGNIFICANT HONORS AND AWARDS

- Alumni Professorship, Auburn University, 2004 – 2009
- Certificate for Information Systems Security (INFOSEC) Professional, Nov. 2005
- Senior Member, Institute of Electrical and Electronics Engineers (IEEE)
- ACM Certificate of Appreciation for Outstanding Service, April 4, 1997.
- Outstanding Engineering Faculty (Teaching award), Computer Science and Engineering, Auburn University, 1989, 1992, and 1997.
- Nominated by the CSE Department for Birdsong Teaching Award, March 1996.
- Summer Faculty Fellowship, Marshall Space Flight Center, NASA, Huntsville, AL, 5/95 - 8/95
- Member, Upsilon Pi Epsilon, Honor Society in the Computing Sciences
- Summer Research Fellowship, University of Cincinnati, 1983 and 1984.
- Outstanding College Student, One of the two representatives from the Taipei Institute of Technology, Taiwan, March 1977.

5. GRADUATE STUDENTS

A. AS MAJOR PROFESSOR

GRADUATED - Ph.D.

First position held

1) Chen, Chun-Yu	Ph.D.	12/99	Assistant Professor, Meiho College, Taiwan
2) Lee, Byong Gul*	Ph.D.	6/98	Assistant Professor, Seoul Women's University, S. Korea
3) Dollar, Timothy*	Ph.D.	6/97	Software Engineer, CFD Research Corp., Huntsville, AL
4) Liao, Shih-Sung	Ph.D.	3/97	Software Engineer, Software Research Institute Inc., San Francisco, CA
5) McQuaid, Patricia*	Ph.D.	8/96	Assistant Professor, Management Dept., Cal. Polytechnic. St. Univ. at San Luis Obispo, California
6) Phiphobmongkol, S.	Ph.D.	6/91	Assistant Professor, (Head as 01/01) Computer Engineering Dept., Chulalongkorn University, Bangkok, Thailand
7) Han, Hyungoo	Ph.D.	12/90	Assistant Professor, Computer Science Dept., Hankuk University for Foreign Studies, Seoul, S. Korea

GRADUATED - Master

8) Inaganti, Srinivasa	MSWE	12/06	Database Developer, Axiom corporation, Little Rock
9) Li-Ching Chien	MS	05/06	Computer Specialist, AFLAC, Columbus, GA
10) Bala Rajagopal	MSWE	12/05	Consultant, UBS Financial Services, Chicago, IL
11) Chris Harmon	MSWE	05/05	Software Engineer, Sandia National Lab, New Mexico
12) Chris Tidwell	MSWE	05/05	Software Engineer, OTI, Montgomery, AL
13) Sandlin, Chris	MSWE	12/04	Software Engineer, Intergraph, Huntsville, AL
14) Zhang, Xiaoxin	MS	05/04	Associate Professor, Chinese Academy of Sciences, Beijing, China
15) Zabcik, Landon	MSWE	08/03	Software Engineer, Spectrum Systems, Pensacola, FL
16) Lin, Jackson	MSWE	08/02	Software Engineer, OIT, Auburn University
17) Chien, Ching-Hua	MSWE	12/01	Assistant Professor, Ping-Tong Teachers College, Taiwan
18) Jones, T. Ben	MSWE	12/01	Software Engineer, Echostar, Atlanta
19) Ma, Jing-Hai	MSWE	8/01	Software Engineer, Infinity Insurance Comp., Birmingham, AL
20) Duan, Julie Yunlei	MSWE	12/00	Software Engineer, Agilent, Sunnyvale, CA
21) Yao, Qiang	MSWE	12/00	Maryland
22) Au, Ching-Feng	MCSE	8/00	Software engineer, Sunnyvale, CA
23) Qin, HaoYu	MCSE	8/00	Database Engineer, Libraria, Inc., San Jose, CA
24) Simpson, Jeff	MCSE	6/00	Software Engineer, Harris Corp., Melbourne, FL

25) Lei, Shan	MCSE	12/99	PhD student, Purdue University
26) Ye, Wei-Qin	MCSE	6/99	Software Engineer, Charlotte, NC
27) Udompasert, Pichit	MCSE	3/99	Software Engineer, Colonial Bank, Montgomery, AL
28) Hall, Mitchell	MCSE	12/98	Software Engineer, Consultant, Atlanta, GA
29) Shieh, Yih-Wen	MCSE	12/98	Software Engineer, Taiwan Wireless Corp., Taiwan
30) Li, Quifan	MCSE	6/98	Software Engineer, Datastream Systems, Inc. Greenville, SC
31) Li, Yanxin	MCSE	3/98	Internet/Intranet Analyst, MIS Dept., City of Tampa, FL
32) Fouss, Jonathan	MS	6/97	PhD student, CSE Dept. Auburn University
33) Crumm, William	MS	6/97	Senior Testing Engineer, Client/Server Inc. Atlanta, GA
34) Chang, Yifang	MS	3/97	Software Engineer, Hitachi Corp., Atlanta, GA
35) Chen, Chun-Yu	MS	12/96	Ph.D. Student, CSE Dept., Auburn University
36) Lee, Byong Gul	MS	8/96	Ph.D. Student, CSE Dept., Auburn University
37) Collins, Susan	MCSE	8/96	Senior Engineer, Westinghouse Savannah River Co., GA
38) Cleveland, David	MCSE	8/96	Computer Engineer, Texas Instruments, Dallas, TX
39) Chen, Liang	MCSE	6/96	Computer Engineer, Kodak Corp., Rochester, NY
40) Robert Brown	MCSE	12/95	System Engineer, MSFC, Huntsville, AL
41) Gajiwala, Shefali	MCSE	6/95	System Analyst, DSD Lab, Ogden Government Services, Montgomery, AL
42) Dollar, Tim	MS	3/95	PhD student, CSE Dept., Auburn University
43) Pradeep, Raman	MCSE	3/95	Computer Engineer, Union Camp Corp., Savannah, GA
44) Wang, Yaowen	MCSE	6/94	Design Engineer, FlowData Inc., Richardson, TX
45) Vuppula, Reddy	MCSE	3/94	Computer Engineer, InfoSoft Inc., Atlanta, GA
46) Price, Kelly	MCSE	8/93	Computer Engineer, CSE Department, Auburn University
47) Stark, Kimberly	MS	8/93	Engineering Scientist, OTI, Huntsville, AL
48) Liao, Shih-Sung	MS	12/92	Ph.D. Student, CSE Dept., Auburn University
49) Alavioon, Sara	MS	12/92	Rexon Software Inc., Fresno, CA
50) Huhner, Kurt	MS	12/92	Engineer, Sverdrup Technology, Inc, MS
51) Parish, Trace	MS	8/91	Engineering Scientist, OTI, Huntsville, AL
52) Griskell, Ivory	MCSE	6/91	Engineer, AT&T, New York
53) Slaminka, Patricia	MS	12/88	Instructor, MIS Department, Auburn University at Montgomery, AL
54) Yousuf, Navied	MS	12/88	Engineer, Computer Resources Inc., Birmingham, AL

*Co-chair

CURRENT -- Ph.D.

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|--------------------|--|
| 1) Fouss, Jonathan | Passed Ph.D. prelim exam, Assistant Professor, Lipscom Univ. |
| 2) Lee, Young-Jin | Passed Ph.D. prelim exam, Assistant Professor, West Illinois Univ. |
| 3) Hu, Guoqiang | Passed Ph.D. prelim exam |

CURRENT -- Master

- 4) Cipperly, Donny
- 5) Han, Jim
- 6) Setiz, Derrf

B. GRADUATE STUDENTS - AS COMMITTEE MEMBER

Has participated in the following *completed* graduate committees

21 PhD and at least 130 masters committees.

(Detailed lists are provided in Attachment - I)

C. PH.D. DISSERTATION OUTSIDE READER

Served as outside reader for 14 PhD dissertations.

(Detailed list is provided in Attachment - I)

D. COURSES TAUGHT

Artificial Intelligence I & II, Expert Systems, Machine Learning, Computer Graphics, Advanced Computer Graphics, Senior Design, Operating Systems, Advanced Operating Systems, Algorithms Design and Analysis, Data Structures, Fundamentals of Computer Science, Introduction to Engineering Programming, Software Quality Assurance.

6. PUBLICATIONS*

* Student contributor

BOOKS

- 1) Kai Chang and James Cross, (Editors), Proceedings of the 34th Annual ACM Southeast Regional Conference, Tuskegee, AL, April 1996, 349 pages.
- 2) W. Day, K. Chang, and C. McCreary, (Editors) Proceedings of the 29th Annual ACM Southeast Regional Conference, Auburn, AL, April 1991, 424 pages.

BOOK CHAPTERS

- 3) Kai-Hsiung Chang and Kofi Nyamekye, "Distributed Intelligent Control systems for an Unmanned Manufacturing Cell," Expert Systems in Engineering Applications, edited by S. Tzafestas, Springer-Verlag Publishing Co., 1993, pp. 352-364.
- 4) Kai-Hsiung Chang and William Wee, "A Knowledge-based Mechanical Planning System," Expert Systems in Engineering Applications, edited by S. Tzafestas, Springer-Verlag Publishing Co. 1993, pp. 291-306.

REFEREED JOURNALS AND SPECIAL COLLECTIONS⁺

⁺ Full-length refereed papers published in special collections.

- 5) C.K. Chang, J. Zhang, and K.H. Chang, "Survey of Computer Supported Business Collaboration in Support of Business Processes", International Journal of Business Process Integration and Management (IJBPI), 1(2), 2006, pp. 76-100.
- 6) Byong G. Lee, Hari Narayanan, and Kai H. Chang, "An Integrated Approach to Distributed Version Management and Role-based Access Control in Computer Supported Collaborative Writing," The Journal of Systems and Software, Vol. 59, No. 2, pp. 119-134, Nov. 2001.
- 7) Kai H. Chang, Shih-Sung Liao*, Richard Chapman, and Chun-Yu Chen, "Test Scenario Generation Based on Formal Specification and Usage Profile," International Journal of Software Engineering and Knowledge Engineering, Vol. 10, No. 2, pp. 185-201, August, 2000.
- 8) Kai Chang, Liam Murphy, Jonathan Fouss*, Tim Dollar*, Byong Lee*, and Yifang Chang*, "Software Development and Integration in a Computer Supported Cooperative Work Environment," International Journal of Software : Practice and Experience, Vol. 28(6), pp. 657-679, May 1998.

- 9) Richard Chapman and Kai Chang, "Program Interpreters," Encyclopedia of Electrical and Electronics Engineering. (about 10,000 words), 1999.
- 10) Kai H. Chang, Shih S. Liao*, Stephen B. Seidman, and Richard Chapman, "Testing Object-Oriented Programs: From Formal Specifications to Test Scenario Generation," Journal of Systems and Software, Vol(42), pp. 141-151, August, 1998.
- 11) James Cross, Kai Chang, Dean Hendrix, Richard Chapman, and Patricia McQuaid*, "Visualization and Measurement of Source Code," CrossTalk - The Journal of Defense Software Engineering, Vol. 10., No. 12, December 1997, pp. 16-19.
- 12) Patricia A. McQuaid*, Kai H. Chang, and James H. Cross, "The Profile Metric: A Complexity Metric to Improve Software Quality," Software Quality, Vol.1997-1998, No. 1, August, 1997, pp. 1-5. (Also appears in Proceedings of the Fifth European Conference on Software Quality, Dublin, Ireland, September, 1996, pp. 166 - 175. (*Best paper in Metrics category*))
- 13) Shih S. Liao*, Kai H. Chang, and Chun Y. Chen*, "An Integrated Testing Framework for Objected-Oriented Programs," Informatica, Vol. 21, No. 1, 1997, pp. 135-145.
- 14) Kai Chang, P. Raman*, W. Carlisle, and J. Cross, "A Self-improving Helpdesk Service System Using Case-Based Reasoning Techniques," Computers in Industry, Vol. 30, 1996, pp. 113-125.
- 15) Kai Chang, J. Cross, W. Carlisle, and S. Liao*, "A Performance Evaluation of Heuristics-based Test Case Generation Methods for Software Branch Coverage," International Journal of Software Engineering and Knowledge Engineering, Vol. 6, no. 4, 1996, pp. 585-608.
- 16) James. Cross, K. Chang, and D. Hendrix, "GRASP/Ada 95: Visualization with Control Structure Diagrams," CrossTalk - The Journal of Defense Software Engineering, Vol. 9 No. 1, 1996, pp. 20-24.
- 17) C. Chiu*, K. Chang, C. Park, and C. Liu, "An Expert System for Capital Budgeting Problems Under Uncertainty," International Journal of Industrial Engineering, Vol. 2, No. 2 June 1995, pp. 89-98.
- 18) Kai Chang, H. Han*, and W. Day, "A Comparison of Failure Handling Approaches for Planning Systems - Replanning vs Recovery," International Journal of Applied Intelligence, Vol. 3, No. 4, December 1993, pp. 275-300.
- 19) Kai Chang, J. Cross, W. Carlisle, and D. Brown, "A Framework for Intelligent Test Data Generation," Journal of Intelligent and Robotic Systems - Theory and Applications, Vol. 5, 1992, pp. 147-165.
- 20) James Cross, K. Chang, W. Carlisle and D. Brown, "Expert Systems Assisted Test Data Generation for Software Branch Coverage," Data and Knowledge Engineering, Vol. 6, No. 4, July 1991, pp. 279-295.
- 21) W. Deason*, D. Brown, K. Chang, and J. Cross, "A Rule-Based Software Test Data Generator", IEEE Trans. on Knowledge and Data Engineering, Vol. 3, No. 1, March, 1991, pp. 108 - 117.
- 22) Kai-Hsiung Chang and Mammatha Edhala*, "Error Recovery: A Condition Oriented Replanning Approach," IEEE Transactions on Systems, Man, and Cybernetics, Vol. 19, No. 1, February, 1989, pp. 130 - 134.
- 23) Kai-Hsiung Chang and James Cross II, "Software Safety for the Space Station Telerobotic Servicer (FTS)," Journal of Occupational Accidents, Vol. 10, 1988, pp. 179 - 189.
- 24) Kai-Hsiung Chang and William Wee, "A Planning Model with Problem Analysis and Operator Hierarchy", IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. 10, No. 5, September, 1988, pp. 672 - 675.
- 25) Kai-Hsiung Chang and William Wee, "A Knowledge-Based Planning System for Mechanical Assembly Using Robots", IEEE EXPERT, Vol. 3, No. 1, Spring 1988, pp. 18 - 30.
- 26) Kai-Hsiung Chang, Kofi Nyamekye, and J Black, "A distributed expert system for manufacturing cell control", Recent Development in Production Research, Vol. 6, 1987, pp. 861-867. (Also

appears in the Proceedings of the IXth International Conference on Production Research, Cincinnati, OH, August, 1987, pp. 1517-1523)

FULL-LENGTH REFEREED PAPERS -- INTERNATIONAL CONFERENCE PROCEEDINGS

- 27) Guoqiang Hu* and Kai H. Chang, "A Methodology for Structured Use-centered Quantitative Full-life-cycle Usability Requirements Specification & Usability Evaluation of Web Sites," the IASTED International Conference on Web Technologies, Applications and Services (WTAS 2006), July 17 - 19, 2006, Calgary, Canada, pp. 1 -6.
- 28) Guoqiang Hu* and Kai H. Chang, "A Methodology for Structured Use-Centered Quantitative Full-Life-Cycle Usability Requirements Specification and Usability Evaluation of Web Sites," The 2006 International Conference on Internet Computing (ICOMP'06), June 26-29, 2006, Las Vegas, USA, pp. 133 - 140.
- 29) Chengliang Wang, Kai H. Chang, and Chung-Han Chen, "A Practical XML-based Enterprise Data Integration Platform," Proceedings of the 2005 International Conference on Internet Computing (ICOMP'05), June 27-30, 2005, pp. 136-141.
- 30) Jia Zhang, Carl K. Chang, Kai H. Chang, and Francis Quek, "Rule-mitigated Collaboration Framework", Proceedings of the 8th IEEE Symposium on Computers and Communications (ISCC 2003), Jun.30-Jul.3, Kemer-Antalya, Turkey.
- 31) Jia Zhang, Carl K. Chang, Kai H. Chang, and Zhiguo Gong, "Computer Supported Cooperative Work Oriented Architecture", Proceedings of the 2003 International Conference on Software Engineering Research and Practice (SERP 2003), Jun. 23-26, 2003, Las Vegas, USA, pp. 358-363.
- 32) Guoqiang Hu* and Kai H. Chang, "A Scheme to Build an Integrated Virtual Home on the WWW," Proceedings of the International Conference on Internet Computing, Las Vegas, June 23-26, 2003, pp. 849-852.
- 33) Young Lee*, Kai Chang, D. Umphress, D. Hendrix, and J. Cross, "Automated Tool for Software Quality Measurement," Proceedings of the 2001 International Conference on Software Engineering and Knowledge Engineering, Buenos Aires, Argentina, June 13 - 15, 2001, pp. 196-202.
- 34) Chun Y. Chen*, R. Chapman, and Kai H. Chang, "Automatic Input Identification from Object-oriented Formal Specification," Proceedings of the 2000 International Conference on Software Engineering and Knowledge Engineering, July 6 - 8, 2000, Chicago, pp. 213-220.
- 35) Chun Y. Chen*, R. Chapman, and Kai H. Chang, "Usage Based Test Scenario Generation from Object-Z Formal Specification," Proceedings of the 1998 International Computer Symposium, Tainan, Taiwan, December 1998, pp. 244-251.
- 36) Susan Collins*, Kai H. Chang, James Cross, and W. Homer Carlisle, "Facilitation of Immunoassay through Object Identification," Proceedings of the Tenth International Conference on Industrial & Engineering Applications of Artificial Intelligence and Expert Systems, Atlanta, GA. June 1997. pp. 381-388. (*one of the eleven best paper finalists selected from 100 submissions*).
- 37) Kai. Chang, Shih.S. Liao*, Richard Chapman, and Chris Rodger, "Usage-Based Test Scenario Generation for Multi-Layer State Transition Diagrams," Proceedings of the 9th International Conference on Software Engineering and Knowledge Engineering, Madrid, Spain, June, 1997, pp. 263-270.
- 38) S. Liao*, K. Chang, S. Seidman, and C. Chen*, "Testing Object-Oriented Programs: Derivation of State Transition Diagrams from Formal Specifications," Proceedings of the 8th International Conference on Software Engineering and Knowledge Engineering, Lake Tahoe, NV, June 1996. pp. 9-16.

- 39) Kai H. Chang, Mark Rogers, and Richard McElyea, "An expert System for Monitoring and Simulation of the AXAF-I," Proceedings of the 9th International Conference on Industrial & Engineering Applications of Artificial Intelligence & Expert Systems, Fukuoka, Japan, June, 1996. pp. 503-510. (*one of the ten best paper finalists selected from 170 submissions*).
- 40) C. Chiu*, C. Liu, and K. Chang, "Knowledge Representation and Reasoning of Fuzzy Capital Rationing," Proceedings of the 6th International Conference on Artificial Intelligence and Expert Systems Applications, Houston, Texas, December 1-2, 1994, pp. 475 - 480.
- 41) K. Price*, K Chang, and W. Day. "DDL: A Parallel Implementation of Prolog," Proceedings of the 7th International Conference on Industrial & Engineering Applications of Artificial Intelligence and Expert Systems, Austin, Texas, May, 1994. pp. 639-645.
- 42) Kai Chang, J. Cross, W. Carlisle, and S. Liao*, "An Empirical Study of Intelligent Test Case Generation Methods for Software Branch Coverage," Proceedings of the Fifth International Conference on Software Engineering and Knowledge Engineering, San Francisco, CA, June 1993, pp. 437 - 444.
- 43) W. Day, C. Ward, and K. Chang, "The Distributed DataLog Interpreter: An Implementation for Cooperative Expert Systems," Proceedings of the 4th International Conference on Industrial & Engineering Applications of Artificial Intelligence and Expert Systems, Hawaii, June 1991, pp. 207-214.
- 44) Kai Chang, W. Carlisle, J. Cross, E. Richards*, and D. Brown, "Testing of Ada Programs Containing Tasking," Proceedings of the 3rd International Conference on Software Engineering and Knowledge Engineering, Skokie, IL, June 1991, pp.155 - 159.
- 45) S. Phiphobmongkol* and K. Chang, "A Multiagent Planner Using Meta-Knowledge and Agent Constraints," Proceedings of the 3rd International Conference on Industrial & Engineering Applications of Artificial Intelligence and Expert Systems, Vol. 1, Charleston, SC, July 1990, pp. 258-267.
- 46) Kai Chang and W. Day, "Adaptive, Multiagent Planning in a Distributed Environment," Proceedings of the 3rd International Conference on Industrial & Engineering Applications of Artificial Intelligence and Expert Systems, Vol. 2, Charleston, SC, July 1990, pp. 828-837.
- 47) Kai-Hsiung Chang, James Cross II, W. Homer Carlisle, and David Brown, "An Intelligent Test Data Generator for Software Branch Coverage," Proceedings of the 1st International Conference on Software Engineering and Knowledge Engineering, Skokie, IL, June 1989, pp. 13-18.
- 48) Kai-Hsiung Chang and Mammatha Edhala*, "Execution Error Recovery for Planning Systems", Proceedings of the 7th International IEEE Phoenix Conference on Computers and Communications, Phoenix, AZ, March 1988, pp.492-496.
- 49) Kai-Hsiung Chang and William Wee, "A Planning System With Analysis", Proceedings of the 2nd IEEE Conference on Artificial Intelligence Applications, Miami, FL, December 1985, pp. 275-280.
- 50) Kai-Hsiung Chang and William Wee, "A Knowledge-Based Planning System for Robot Assembly", Proceedings of the 22nd ACM/IEEE Design Automation Conference, Las Vegas, NV, June 1985, pp. 330-336.
- 51) Kai-Hsiung Chang and William Wee, "A Robot Assembly Planning System", Proceedings of the IASTED (International Association of Science and Technology for Development) Robotics and Automation Symposium, New Orleans, LA, November 1984, pp. 61-65.

FULL-LENGTH REFEREED PAPERS -- NATIONAL CONFERENCE PROCEEDINGS

- 52) James Cross, K. Chang, and P. McQuaid*, "GRASP/Ada 95 - Visualization and Measurement," Proceedings of the 1996 Software Technology Conference (in CD ROM) , Salt Lake City, UT, April 1996.
- 53) Kai Chang, Y. Gong, S. Gajiwala*, and A. Wear*, "On Computer Supported Collaborative Writing Tools for Distributed Environments," Proceedings of the 1995 ACM Computer Science

Conference, Nashville, TN, March, 1995, pp. 222-229. Also appears as CSE technical report 94-14.

- 54) L. Moore, K. Chang, J. Hale, T. Bester*, T. Rix, and Y. Wang, "Rule-Based Design of Conceptual Models for Formative Evaluation," Proceedings of the 3rd Conference on CLIPS, Houston, Texas, September 12-14, 1994, pp. 317-325.
- 55) Kai Chang, S. Phiphobmongkol*, and W. Day, "An Agent-Oriented Multiagent Planning System," Proceedings of the 1993 ACM Computer Science Conference, Indianapolis, IN, February 1993, pp. 107 - 114.
- 56) Chang, W. Carlisle, J. Cross, and D. Brown, "A Heuristic Approach for Test Case Generation," Proceedings of the 1991 ACM Computer Science Conference, San Antonio, TX, March 1991, pp. 174-180
- 57) W. Carlisle, K. Chang, J. Cross, W. Keleher*, and K. Shackelford, "Automated Unit-Level Testing With Heuristic Rules," Proceedings of the Fifth Conference on Artificial Intelligence for Space Applications, Huntsville, AL, May 1990. pp. 567 - 576.
- 58) Y. Han* and K. Chang, "A Practical Approach to Error Recovery for Multiagent Planning Systems," Proceedings of the 1990 ACM Computer Science Conference, Washington, DC, February 1990, pp. 201-207.
- 59) Kai-Hsiung Chang, James Cross, and R. Steve Dannelly*, "Software Safety for Flight Telerobotic Servicer (FTS)", Proceedings of the 1988 SPIE (The International Society for Optical Engineering) Symposium on Space Station Automation IV, Cambridge, MA, November, 1988, pp. 80-85.
- 60) Kai-Hsiung Chang, "Planning Activities in the Space", Proceedings of the 3rd NASA Annual Conference on Artificial Intelligence for Space Applications, Huntsville, November 1987, pp. 315-319.

FULL-LENGTH REFEREED PAPERS -- REGIONAL CONFERENCE PROCEEDINGS

- 61) Jeong Yang*, T. Dean Hendrix, Kai Chang, and David Umphress, "An Empirical Validation of Complexity Profile Graph," Proceedings of the 43rd ACM Southeast Conference, Kennesaw, GA March 18- 19, 2005, pp. 143 – 149.
- 62) Daniela Marghitu, Chris Harmon*, and Kai Chang, "Developing a Universally Accessible Web Portal for Traditional and Distance Learning Versions of a Computer Literacy Course: An Auburn University Case Study," Proceedings of the 43rd ACM Southeast Conference, Kennesaw, GA March 18- 19, 2005, pp. 288 – 293.
- 63) Yiming Ji*, Kai H. Chang, and Chi-Cheng Hung, "Efficient edge detection and object segmentation using Gabor filters," Proceedings of the 42nd ACM Southeast Conference, Huntsville, AL April 2-3, 2004, pp. 454 – 459.
- 64) Guoqiang Hu* and Kai H. Chang, "Global Computing in a Historical View," Proceedings of the 41st ACM Southeast Conference, Savannah, Georgia, March 7 – 8, 2003, pp. 472- 477.
- 65) Jia Zhang, Carl Chang, and Kai H. Chang, "Enhanced Architecture for Control Management in Computer Support Cooperative Work," Proceedings of the 41st ACM Southeast Conference, Savannah, Georgia, March 7 – 8, 2003, pp.441 –446.
- 66) Daniela Marghitu, Jackson Lin*, and Kai H. Chang, "Web-Based Software Integration of Skill Assessment and Testing IT Tools for the University Computer Competency Exams," Proceedings of the 41st ACM Southeast Conference, Savannah, Georgia, March 7 – 8, 2003, pp. 406 – 411.
- 67) Bonam Kim*, Dean Hendrix, Kai H. Chang, and John Cochran, and Jung H. Jo, "GITCS: Location-awareness application based on Wireless LAN," Proceedings of the 41st ACM Southeast Conference, Savannah, Georgia, March 7 – 8, 2003, pp. 57-62.
- 68) Young J. Lee*, Kai H. Chang, and David Umphress, "An Automated Measurement Environment: Retrieving Reusable Software Components based on Tabular Representation," Proceedings of the 40th ACM Southeast Conference, Raleigh, N.C. April 26-27, 2002, pp. 111-118.

- 69) Young Lee* and Kai H. Chang, "Reusability and Maintainability Metrics for Object-oriented Software," Proceedings of the 38th ACM Southeast Conference, Clemson, April, 2000, pp. 88-94.
- 70) Jonathan D. Fouss* and Kai H. Chang, "Classifying Groupware," Proceedings of the 38th ACM Southeast Conference, Clemson, April, 2000, pp. 117-124.
- 71) B. Lee*, K. Chang, and H. Narayanan, "An Integrated Approach to Version Control Management in Computer Supported Collaborative Writing," Proceedings of the 36th ACM Southeast Conference, Atlanta, GA, April, 1998, pp. 34-43.
- 72) K. Chang, L. Murphy, T. Dollar*, B. Lee*, Y. Chang*, and J. Fouss*, "Design and Model for a Computer Supported Cooperative Environment for CASE and CAD Applications," Proceedings of the 35th ACM Southeast Conference, Murfreesboro, TN, April, 1997, pp. 191-198.
- 73) J. Fouss*, K. Chang, L. Murphy, T. Dollar*, B. Lee*, and Y. Chang*, "Computer-aided Software Engineering in a Computer Supported Cooperative," Proceedings of the 35th ACM Southeast Conference, Murfreesboro, TN, April, 1997, 268-274.
- 74) Shih Liao*, K. Chang, and C. Chen*, "Testing Object-Oriented Programs Using State Based Usage Models," Proceedings of 34th ACM Annual Southeast Conference, Tuskegee, AL, April, 1996, pp. 93 - 100.
- 75) A. Wear*, Y. Gong, and K. Chang, "Database Management for Multimedia Distributed Collaborative Writing," Proceedings of the 33rd Annual ACM Southeast Conference, Clemson, SC, March 1995, pp. 42-51.
- 76) S. Dannelly*, J. Cross, and K. Chang, "Verification of Expert Systems," Proceedings of the 29th ACM Southeast Conference, Auburn, AL, April 1991, pp. 21-26.
- 77) Suebskul Phiphobmongkol* and Kai-Hsiung Chang, "A Multiagent Planning System Using Synchronized Agent Assignment Technique," Proceedings of the ACM Southeast Conference, Atlanta, GA, April 1989, pp. 25-30.
- 78) Hyungoo Han* and Kai-Hsiung Chang, "Error Recovery for Multiagent Planning Systems," Proceedings of the ACM Southeast Conference, Atlanta, GA, April 1989, pp. 36-42.
- 79) Navied Yousuf* and Kai-Hsiung Chang, "Neural Network: Highly Parallel and Interconnected Model for the Fifth Generation Computing," Proceedings of the ACM Southeast Conference, Mobile, AL, April 1988, pp. 420-424.
- 80) Kofi Nyamekye, Kai-Hsiung Chang, and Navied Yousuf*, "The Relational Data Base Management for Unmanned Robotic Cells," Proceedings of the ACM Southeast Conference, Mobile, AL, April 1988, pp. 108-113.

REFEREED SHORT PAPERS — INTERNATIONAL CONFERENCE PROCEEDINGS

- 81) Wen-Chen Hu, Kai H. Chang, and Yapin Zhong, "ApproxSeek: Web Document Search Using Approximate Matching," Proceedings of the 5th Conference on Information Science, Vol. I, Atlantic City, Feb. 27 – Mar. 3, 2000, pp. 320 – 323.
- 82) Chun Y. Chen, R. Chapman, and Kai H. Chang, "Test Scenario and Test Case Generation based on Object-Z Formal Specification," Proceedings of the 1999 International Conference on Software Engineering and Knowledge Engineering, June 16-19, 2000, Kaiserslautern, Germany, pp. 207-211.
- 83) Shih Liao*, K. Chang, and S. Seidman, "An Integrated Testing Frame for object-Oriented Programs - Work in Progress," Proceedings of the 7th International Conference on Software Engineering and Knowledge Engineering, Rockville, Maryland, June 1995, pp. 123 - 125.
- 84) Shih Liao* and K. Chang, "An Integrated Testing Frame for Object-Oriented Programs," Proceedings of the 2nd International Conference on Knowledge Acquisition, Representation and Processing, Auburn, AL, August, 1995, pp. 75-78.

REFEREED SHORT PAPERS — NATIONAL CONFERENCE PROCEEDINGS

- 85) P. McQuaid*, K. Chang, and J. Cross, "Visualizing Software Complexity," Proceedings of the 27th Annual Decision Sciences Institute Conference, Vol. 2, Orlando, FL, November, 1996, pp.527-529.
- 86) P. McQuaid*, K. Chang, and J. Cross, "A Complexity Metric to Aid Software Testing & Maintenance," Proceedings of the 26th Decision Sciences Institute Conference, Boston, MA, November, 1995, pp. 862-864.

REFEREED SHORT PAPERS — REGIONAL CONFERENCE PROCEEDINGS

- 87) Guoqiang Hu* and Kai H. Chang, "Web Sites Usability, Usability Requirements Specification & Usability Evaluation," 44th ACM Southeast Conference, Melbourne, FL, March 10-12, 2006, pp. 794-795.
- 88) Yiming Ji*, Kai H. Chang, and Patrick Bobbie, "Interactive software architecture design with modeling & simulation," Proceedings of the 42nd ACM Southeast Conference, Huntsville, AL April 2-3, 2004, pp. 305 – 306.
- 89) Young J. Lee*, Kai H. Chang, and David Umphress, "An Automated Measurement Environment: Retrieving Reusable Software Components based on Tabular Representation," Proceedings of the 40th ACM Southeast Conference, Raleigh, N.C. April 26-27, 2002, pp. 111-118.
- 90) Jonathan D. Fouss* and Kai H. Chang, "A Collaborative Approach to Software Engineering," Proceedings of the 38th ACM Southeast Conference, Clemson, April, 2000, pp. 125-126.
- 91) Jonathan D. Fouss* and Kai H. Chang, "Issues of Current CSCW Systems and Possible Solutions," Proceedings of the 1999 ACM Southeast Conference on CD, Mobile, AL, April 1999.
- 92) Chun-Yu Chen*, Richard Chapman, and Kai H. Chang, "Test Scenario and Regression Test Suite Generation from Object-Z Formal Specification for Object-Oriented Program Testing," Proceedings of the 1999 ACM Southeast Conference on CD, Mobile, AL, April 1999.
- 93) T. Dollar*, L. Murphy, K. Chang, B. Lee*, Y. Chang*, and J. Fouss*, "Supporting Document Organization and Security in Distributed Collaborative Authoring Systems Through the Use of Collaborations," Proceedings of the 1997 ACM Southeast Conference, Murfreesboro, TN, April, 1997, 208-210.
- 94) Y. Chang*, K. Chang, L. Murphy, T. Dollar*, B. Lee*, and J. Fouss*, "Automatic Document Generation for Distributed Collaborative Writing and Design Environment," Proceedings of the 1997 ACM Southeast Conference, Murfreesboro, TN, April, 1997, pp. 205-207.
- 95) P. McQuaid*, K. Chang, J. Cross, and W. Carlisle, "Complexity Support for Program Modularization," Proceedings of 34th ACM Annual Southeast Conference, Tuskegee, AL, April, 1996, pp. 319-321.
- 96) S. Alavioun*, K. Chang, W. Homer, and J. Cross, "Achieving Communication Coverage for Testing Ada Tasks," Proceedings of the 31st ACM Southeast Conference, Birmingham, AL, April, 1993, pp. 355 - 358.

ABSTRACT REFEREED SHORT PAPERS AND ABSTRACTS

- 97) Pradeep Raman*, Kai Chang, W. Carlisle, and Cross, "SmartUSA: A Case-Based Reasoning Systems for Customer Services," Proceedings of the 9th International Conference on Industrial & Engineering Applications of Artificial Intelligence & Expert Systems, Fukuoka, Japan, June, 1996, pp. 776.
- 98) Navied Yousuf* and Kai-Hsiung Chang, "An Expert System for Incorporating Design for Testability in Programmable Logic Arrays", Proceedings of the IEEE Southeastcon' 88 Conference, Knoxville, TN, April 1988, pp. 6-10.
- 99) Navied Yousuf* and Kai-Hsiung Chang, "PLAXPERT - An Expert System for Incorporating Design for Testability in Programmable Logic Arrays", Proceedings of the ACM Annual Computer Science Conference, Louisville, KY, February 1988, pp. 720.
- 100) Kai-Hsiung Chang, "A Multi-agent Planning System", Proceedings ACM Annual Computer Science Conference, St. Louis, MO, February 1987, pp. 416.

PROJECT REPORTS AND TECHNICAL REPORTS

- 101) Kai H. Chang and Liam Murphy, A Computer Supported Cooperative Environment for CASE and CAD Applications, Final Report to NIST, November 23, 1996, 86 pages.
- 102) Kai Chang, "The Feasibility Study and Evaluation of Applying Expert System Technologies to the Mission Operations for the AXAF-I Spacecraft," 1995 NASA/ASEE Summer Faculty Fellowship Program Research Reports, Marshall Space Flight Center, NASA, Huntsville, February, 1996. pp. IX-1 - IX-5.
- 103) Kai Chang, Y. Gong, A. Khan*, Y. Vuppula*, and A. Wear*, DCWA: A Distributed Collaborative Writing Aid, CSE Technical report 94-05, 1994.
- 104) David Brown, W. Homer Carlisle, Kai-Hsiung Chang, and James Cross II, The Development of a Program Analysis Environment for Ada, Project Final Report (Phase 3) to NASA, August, 1991. (Authors in alphabetical order)
- 105) David Brown, W. Homer Carlisle, Kai-Hsiung Chang, and James Cross II, The Development of a Program Analysis Environment for Ada, Six-month Report (Phase 3) to NASA, February, 1991. (Authors in alphabetical order)
- 106) David Brown, W. Homer Carlisle, Kai-Hsiung Chang, and James Cross II, The Development of a Program Analysis Environment for Ada, Annual Report (Phase 2) to NASA, August, 1990. (Authors in alphabetical order)
- 107) David Brown, W. Homer Carlisle, Kai-Hsiung Chang, and James Cross II, The Development of a Program Analysis Environment for Ada, Annual Report (Phase 1) to NASA, August, 1989. (Authors in alphabetical order)
- 108) Kai-Hsiung Chang and David Brown, A Study on Intelligent Control Steam Power Plant, Project final report to Georgia Power Company, Dec. 1, 1988.
- 109) Kai-Hsiung Chang, James Cross, and R. Steve Dannelly*, Software Safety for Flight Telerobotic Servicer, Chapter 6 of Critical Issues in Robot-Human Operation During the Early Phase of the Space Station Program, Final Report to NASA Goddard Space Flight Center, December 1987, pp. 47-54.

OTHERS

- 110) Kai H. Chang, (editor), Computer Engineering Senior Design Projects Manual, Version 3.1, Department of Computer Science and Engineering, Auburn University, January 1995.

7. INVITED PRESENTATIONS

- 1) Software Engineering Education at Auburn University, School of Software Engineering, Chongqing University, May, 2004.
- 2) Research and Education Programs in Computer Science and Software Engineering at Auburn University, 2-hour lecture, Taiyuan University of Technology, August 8, 2003, Shanxi, China.
- 3) CSCW and CSCWriting, 2-hour lecture, National Ping-Tong Teachers College, December 31, 2001, Ping-Tong, Taiwan.
- 4) Computer Supported Cooperative Work (CSCW), 1-hour lecture, Meiho College, December 31, 2001, Tsao-Tso, Ping-Tong, Taiwan.
- 5) Five seminars were presented at the Satellite Tracking, Telemetry, and Command Section, Electronics and Telecommunications Research Institute (ETRI), Taejon, S. Korea, December 16 - 20, 1996. (also see Section 16, Consultant/Extension Activities)
 - a) Expert Systems for Space Applications;
 - b) Integrated CASE and CAD support for CSCW environment;
 - c) Case-based Reasoning for Industrial Applications;

- d) Testing for Object-Oriented Programs;
- e) Software Visualization.
- 6) An Expert System for the monitoring and simulation of the AXAF-I, National Chung-Hsing University, Taipei, Taiwan, June 19, 1996.
- 7) Artificial Intelligence Applications in Industry, National Taipei Institute of Technology (IE Department), June 19, 1996.
- 8) Expert System Applications in Space Exploration, National Taipei Institute of Technology (EE Department), Taiwan, June 15, 1996.
- 9) Testing Object-Oriented Program Based on Usage Profiles and Formal Specifications, National Yun-Lin Institute of Technology, Tou-Liuo, Taiwan, June 14, 1996.
- 10) Planning Research at Auburn University, Oak Ridge National Laboratory, TN, March 29, 1988.

8.A RESEARCH CONTRACTS - FUNDED

- 1) Co-Principal Investigator, SFS: Scholarship Partnership with Alabama State University and Tuskegee University, NSF, \$1,493,790, 8/15/2006 – 8/15/2009 (PI – Dr. Hamilton, Co-PIs – Drs. Chang, Dozier, Gilbert, and Wang)
- 2) Co-Principal Investigator, Department of Defense Information Assurance Scholarship Program at Auburn University, Department of Defense, \$108,092, 8/2006 – 8/2007, PI – Dr. John Hamilton
- 3) Co-Principal Investigator, REU-Site for Pervasive and Mobile Computing, NSF, \$299,997, 5/15/2006 – 5/14/2009 (PI – Dr. Saad Biaz)
- 4) Co-Principal Investigator, Collaborative Research: Building Information Assurance Education Capacity with Alabama State University, NSF, \$99,986, 9/1/2005 – 8/31/2007, PI – Dr. John Hamilton.
- 5) Co-Principal Investigator, Department of Defense Information Assurance Scholarship Program at Auburn University, Department of Defense, \$77,456.40, 8/2005 – 8/2006, PI – Dr. John Hamilton
- 6) Principal Investigator, Graduate Fellowships in Wireless Technology – Graduate Assistance in Area of National Need (GAANN) Program, US Department of Education, \$393,552 Federal (actual award \$461,552), \$98,388 Auburn University, 8/16/2003 – 8/15/2006. (Co-PIs: Drs. Biaz, Chapman, Gilbert, and Lee)
- 7) Co-Principal Investigator, REU-Site for Pervasive and Mobile Computing, NSF, \$273,155, 5/1/2003 – 4/30/2007 (PI – Dr. Saad Biaz)
- 8) Co-Principal Investigator, Voice Interface for Wireless Law Enforcement Systems, Southwest Alabama Integrated Criminal Justice System, sub-contract through University of Alabama, \$20,000, 10/1/2002 – 9/30/2003. (PI - Dr. Chapman, Co-PI Dr. Gilbert)
- 9) Co-Principal Investigator, Scalable Visualizations to Improve and Measure Comprehensibility of Software Systems: A Framework for Evaluation, NSF, 6/16/98 - 6/15/2001, \$ 845,312, (Co-PIs, Drs. Cross and Hendrix)
- 10) Co-Investigator, Reconfigurable Smart Components for Next Generation Information Technology, Auburn University Research Panicle Initiatives, Annual support up to \$1,000,000 in 5-year increment. 10/1/99 – 9/30/04. (Co-Pis, Drs. Owens, Cross, and Jaeger)
- 11) Co-Principal Investigator, Scalable Visualizations to Improve and Measure Comprehensibility of Software Systems: A Framework for Evaluation, College of Engineering Infrastructure Award, 10/1/98 – 9/30/00,\$100,000 (Co-PIs, Drs. Cross and Hendrix)

- 12) Co-Principal Investigator, Scalable Visualizations to Improve and Measure Comprehensibility of Software Systems: A Framework for Evaluation, Engineering Alumni Council, Graduate Research Assistantship Award, 10/1/98 – 9/30/00, \$20,000 (Co-PIs, Drs. Cross and Hendrix)
- 13) Co-Principal Investigator, GRASP/Ada 95 - Graphical Representation of Algorithms, Structures, and Processes for Ada 95, Marshall Space Flight Center, NASA, Huntsville, AL. \$30,000. 3/96 - 9/96. (Co-PI, Dr. Cross)
- 14) Principal Investigator, A Computer Supported Cooperative Environment for CASE and CAD Applications, National Institute of Standards and Technology, 9/1/95 - 8/31/96, \$70,022 (Co-PI - Dr. Liam Murphy)
- 15) Principal Investigator, An Integrated Testing Environment for Object-Oriented Programs, Engineering Alumni Council, Graduate Research Assistantship Award, 10/1/95 - 9/30/97, \$20,000.
- 16) Co-Investigator, The Development of a Program Analysis Environment for Ada(Phase III). NASA, 6/1/90 - 8/30/91. \$ 305,000. (Co-PIs - Drs. Brown and Cross)
- 17) Co-Investigator, The Development of a Program Analysis Environment for Ada(Phase II). NASA, 6/1/89 - 5/30/90. \$ 299,000. (Co-PIs - Drs. Brown and Cross)
- 18) Co-Investigator, The Development of a Program Analysis Environment for Ada. NASA, 6/1/88 - 5/30/88. \$ 115,000. (PI - Dr. Brown)
- 19) Principal Investigator. A Study of Intelligent Control for Steam Power Plants. Georgia Power, 3/15/1988 - 9/15/1988. \$15,000.
- 20) Principal Investigator, Software and Human Robotic Safety - Study and identification of safety issues for imbedded software in Flight Telerobotic System, NASA Goddard Space Flight Center. \$14,060. 7/1987 - 3/1988.
- 21) Co-investigator, Computerized Manufacturing System (CMS), Advanced Manufacturing Technology Center, Auburn University. Implementation of knowledge-based systems in manufacturing, computer interface, CAM data base management. Supporting 2 graduate students 1/3 time. 10/1986 - 3/1988. Supporting 1 graduate student 1/3 time. 3/1988 - 12/1988.

8.B EDUCATION AND TEACHING GRANTS

- 1) Educator's grant to participate the 2002 ACM SIGSOFT Conference and 2 educational tutorials, November 18 – 22, 2002, Charleston, SC, \$1958.61
- 2) Principal Investigator, Development of Lecture and Programming Assignment Materials for COMP6400 in the Semester System, Daniel F. Breeden Endowment Award, 10/99 – 9/00, \$2,000.

9. CONSULTANT/EXTENSION ACTIVITIES

- 1) Computer Science Expert. Satellite Tracking, Telemetry , and Command Section, Korea Electronics and Telecommunications Research Institute, Taejon, S. Korea, December 16 - 20, 1996.
 - Discussed software simulation and testing issues of the second generation Korea Satellite.
 - Presented computer science research topics at Auburn University
- 2) SummerTech 1988, 1989, 1990, 1991
 Presenter of Artificial Intelligence/Expert Systems at SummerTech 1988 to 1991, Auburn University. (SummerTech was organized by the Bell South Company and Auburn University. It was designed for 27 talented minority high school students from nine southeast states - three top students from each state. The program was one week long and covered advanced technologies like communication, information management, computers, etc.)

- 3) Consultant, Automation and Control Systems, Rust International Corp., Birmingham, April, 1987.
Artificial intelligence for plant control (contact: Mr. Oscar Rhudy)
- 4) Organized the following Workshops at College of Engineering for industrial representatives from Alabama and faculty and students from Auburn University.
 - Third TI Artificial Intelligence Satellite Symposium. April 8, 1987. (about 50 people attended)
 - Carnegie Group Knowledge Craft Workshop. May 21, 1987. (about 50 people attended)
- 5) Outreach courses taught
 - COMP 6716 Software Quality Assurance, Spring 2006 (5 students)
 - COMP 6406 Computer Graphics, spring 2006 (1 student)
 - COMP 7616 Software Quality Assurance, Spring 2006 (1 student)
 - COMP 7406 Computer Graphics, summer 2005 (1 student)
 - COMP 7406 Computer Graphics, summer 2004 (1 student)
 - COMP 7610 Software Quality Assurance, Spring 2004 (10 students)
 - COMP 6406 Fundamentals of Computer Graphics, Spring 2004 (3 students)
 - COMP 7406 Computer Graphics, summer 2003 (4 students)
 - COMP 6716 Software Quality Assurance, Spring 2003 (4 students)
 - COMP 6716 Software Quality Assurance, Fall 2002 (2 students)
 - COMP 7406 Adv. Computer Graphics, Summer 2002 (2 students)
 - COMP 6406 Fundamentals of Computer Graphics, Spring 2001, (5 students)
 - COMP 7400 Adv. Computer Graphics, Fall 2000 (1 student)
 - COMP 0540 Fundamentals of Computer Graphics, Summer 2000 (4 students)
 - COMP 640 Adv. Computer Graphics, Spring 2000 (2 students)
 - COMP 540 Fundamentals of Computer Graphics, Summer 99 (3 students)
 - COMP 640 Adv. Computer Graphics, Spring 99 (1 student)
 - CSE 540 Computer Graphics, Summer 98 (2 students)
 - CSE 640 Adv. Computer Graphics, Spring 98, (4 students)
 - CSE 540 Computer Graphics, Summer 97 (4 students)
 - CSE 560 Artificial Intelligence, Spring 97 (2 students)
 - CSE 560 Artificial Intelligence, Summer 96 (2 students)
 - CSE 660 Expert Systems, Spring 96 (2 students)
 - CSE 561 Advanced Artificial Intelligence, Winter 96 (2 students)
 - CSE 561 Advanced Artificial Intelligence, Winter 94 (5 students)
 - CSE 660 Expert Systems, Spring 93 (8 students)
 - CSE 561 Advanced Artificial Intelligence, Winter 93 (8 students)
 - SCE 560 Artificial Intelligence, Fall 92 (11 students)
 - CSE 561 Advanced Artificial Intelligence, Winter 92 (2 students)
 - CSE 560 Artificial Intelligence, Fall 91 (3 students)
 - CSE 560 Artificial Intelligence, Spring 91 (6 students)
 - CSE 660 Expert Systems, Winter 91 (1 student)
- 6) Community presentations
 - Internet and Life Style, Civitan of Auburn, June 16, 2000

10. SERVICE ACTIVITIES

UNIVERSITY SERVICES

- Instructional Directions Committee (Chaired by Dr. John Pritchett) (1/02 –02/02)
- Engineering Dean Search Committee (9/99 – 3/00)
- Search Committee for Assistant Director and Oversea Study Coordinator, Office of International Education (Fall, 2001)
- Search Committee for Immigration Specialist, Office of International Education (4/02)

- Engineering 2005 Committee (College of Engineering Precinct Planning Committee) (6/97 - 3/99)
- Graduate Council Member. (9/91 - 8/94, 4/97-6/97, 12/97 – 8/98)
- Faculty Advisor, Chinese Students Association (Taiwanese) at Auburn University. (8/88 - 6/89, 4/94 - 3/95, 4/97 – 3/98, 4/00 – 2/02)
- Ad hoc committee on Degree Audit Computer System (chaired by Dr. Carol Daron, Assistant VP Academic Affairs, 4/95 -12/95)

COLLEGE COMMITTEES

- Engineering Faculty Council Representative (Tenure & Promotion committee). (10/87 - 6/91, 10 / 96 - present)
- Engineering Research Council (7/98 – present)
- Search Committee for Associate Dean for Research, (10/01 – 05/02)
- Budget Reallocation Committee (1/98 - 3/98)
- Manufacturing Engineering Program CSE Representative. (10/86 - 8/93)
- CSE Department Head Search Committee. (10/87 - 6/90)
- Engineering Teaching Evaluation Committee. (10/88 - 6/89)
- Faculty Advisory Committee for Outreach Program (5/94 - 6/95)
- Space Allocation Committee (Winter, 2001)

DEPARTMENT COMMITTEES

- Graduate Program Officer. (CSE) (6/91 - 5/95) (6/97 – 8/05)
- E-Day Committee. (CSE) (Chair, 10/86 - 3/93, member, 4/93- 4/97)
- Equipment Planning Committee. (CSE) (10/88 - 8 /89, 9/90 - 8/92)
- Undergraduate Academic Standard Committee. (6/89 - 9/90)
- CSE Faculty Recruiting Committee. (CSE) (10/87 - 6/88, 10/95 - present (chair))
- Graduate Committee. (CSE) (9/88 – 8/05)
- Technical Report coordinator. (CSE) (7/89 - Present)
- IEEE-CS Student Chapter Advisor. (CSE) (10/86 - 8/92)
- Computer Systems Engineer Search Committee, Chair(9/91 - 2/92)
- Strategic Planning Committee, (10/94 - 5/95)

11. PARTICIPATION IN PROFESSIONAL SOCIETIES

- **Vice President and Member of Board of Directors** (Elected in June, 1996, Fukuoka, Japan).
- International Society of Applied Intelligence (1/1997-12/1998)
- **MEMBERSHIP**
- **Senior Member**, Institute of Electrical and Electronics Engineers (IEEE) and Computer Society
- **Member**, Association for Computing Machinery (ACM)
- ACM Southeast Conference Homepage
- **Web Master**, <http://www.eng.auburn.edu/conf/acmse>
- Creation, update, and maintenance of the homepage (since 8/96).
- ABET/Computing Accreditation Commission (CAC), Commissioner, 2005-2008.
- ABET/CAC Computer Science Accreditation Board (**CSAB**) **Program Evaluator**, Fall 2000, Fall 2003 and Fall 2004. **Team Chair**: Fall 2005.
- Visited and evaluated four Computer Science programs.
- IEEE-Computer Society/ACM Curriculum Committee for Software Engineering (**CCSE**) member. **Chair** for the Software Design Knowledge Area. 2002.

- **Proposal Reviewer**, Software Engineering Directory, **National Science Foundation**, 1999, 2003.
- **Application Reviewer**, Graduate Research Fellowship, Electrical, Computer and Industrial Engineering/Computer Science, **National Science Foundation**, 2001, 2002, 2003, 2005.
- **Application Reviewer**, Homeland Security Research Fellowship, Computer Science Group, **Department of Homeland Security**, 2004, 2005
- **Application Reviewer**, Hollings Undergraduate Scholarship Program, National Oceanic and Atmospheric Administration, 2005
- **CONFERENCE PROGRAM CHAIR**
 - **Program Chair** 34th ACM Annual Southeast Conference, Tuskegee University, April 18-19, 1996.
 - **Program Co-Chair** 29th ACM Annual Southeast Conference, Auburn, April 10 -12, 1991.
- **CONFERENCE COMMITTEES -- INTERNATIONAL CONFERENCES**
 - Twelfth International Conference on Distributed Multimedia Systems, Grand Canyon, August 30 – September 1, 2006.
Program Committee Member
 - Eleventh International Conference on Distributed Multimedia Systems, Banff, Canada, September 5-7, 2005
Program Committee member
 - Eighteenth International Conference on Industrial & Engineering Applications of Artificial Intelligence and Expert Systems, 2005.
Program Committee member
 -
 - Tenth International Conference on Distributed Multimedia Systems, San Francisco Bay, September 8-19, 2004.
Program Committee member
 - 2004 First International Conference on Software Quality
Program Committee member
 - SAC'04 ACM Symposium on Applied Computing, Special Track on Artificial Intelligence, Computational Logic and Image Analysis, March 14-17, 2004, Nicosia
Program Committee member
 - Sixteenth International Conference on Industrial & Engineering Applications of Artificial Intelligence and Expert Systems, Loughborough, UK, June 23-26, 2003.
Program Committee member
 - Ninth International Conference on Distributed Multimedia Systems, Miami, FL, September 24-26, 2003.
Program Committee member
 - Fifteenth International Conference on Industrial & Engineering Applications of Artificial Intelligence and Expert Systems, Cairns, Australia, June 17-20, 2002.
Program Committee member
 - International Conference on Distributed Multimedia, Taipei, Taiwan, September, 2001.
Program Committee member
 - Fourteenth International Conference on Industrial & Engineering Applications of Artificial Intelligence and Expert Systems, Budapest, Hungary, June 4-7, 2001.

Program Committee member

- Thirteenth International Conference on Software Engineering and Knowledge Engineering, Buenos Aires, Argentina, June 13-15, 2001.
Program Committee member
- Twelfth International Conference on Software Engineering and Knowledge Engineering, Chicago, IL July 6-8, 2000.
Program Committee member
- First International Chinese Computing Conference, Chicago, July 8-10, 2000.
Program Committee member
- Twelfth International Conference on Industrial & Engineering Applications of Artificial Intelligence and Expert Systems, Cairo, Egypt, May 31 – June 3, 1999.
Program Committee member
- Eleventh International Conference on Software Engineering and Knowledge Engineering, Kaiserslautern, Germany, June 16 – 19, 1999.
Program Committee member
- Eleventh International Conference on Industrial & Engineering Applications of Artificial Intelligence and Expert Systems, Benicassim, Castellon, Spain, June 1 - 4, 1998
Program Committee member
- Tenth International Conference on Software Engineering and Knowledge Engineering, San Francisco, CA, June 18-20, 1998
Program Committee member
- Tenth International Conference on Industrial & Engineering Applications of Artificial Intelligence and Expert Systems, Atlanta, GA, June, 1997
Program Committee member
Session Chair for Computer Vision and Neural Networks
- Ninth International Conference on Software Engineering and Knowledge Engineering, Madrid, Spain, June, 1997
Program Committee member
- Ninth International Conference on Industrial & Engineering Applications of Artificial Intelligence and Expert Systems, Fukuoka, Japan, June, 1996
Program Committee member
Session Chair for Planning and Scheduling, and Case Based Reasoning
- Fourth International Conference on Software Engineering and Knowledge Engineering, June 17 -19, 1992, Capri, Italy
Program Committee member
- **SESSION CHAIR -- NATIONAL CONFERENCE**
 - 1991 ACM Computer Science Conference. March 5 - 7, 1991. San Antonio, Texas.
Session Chair for Artificial Intelligence.
- **COMMITTEE / SESSION CHAIR -- REGIONAL CONFERENCES**
 - The 42nd Annual ACM Southeast Conference, April 9-10, 2004, Huntsville, AL
Program Committee Member
 - The 41st Annual ACM Southeast Conference, March 7-8, 2003, Savannah, GA
Program Committee Member

- The 40th Annual ACM Southeast Conference, April 26-27, 2002, Raleigh, NC
Program Committee Member
- The 36th Annual ACM Southeast Conference, April 1-3, 1998, Atlanta, Georgia
Session Chair Artificial Intelligence
- The 35th Annual ACM Southeast Conference, April 2-4, 1997, Murfreesboro, Tennessee
Session Chair for Distributed Systems and Computer Supported Cooperative Environments
- The 26th Annual ACM Southeast Regional Conference. April 21 - 22, 1988. Mobile, Alabama
Program Committee Member.
Session Chair for Expert Systems.
- Poster Competition Judge, 3rd Annual Undergraduate Science and Engineering Conference (USEC), Tuskegee University, Tuskegee, AL, Nov. 23-24, 2002.
- Presentation Competition Judge, 4th Annual Undergraduate Science and Engineering Conference (USEC), Tuskegee University, Tuskegee, AL, Nov. 14-16, 2003.
- **BOOK REVIEW**
 - Artificial Intelligence: Principles and Applications for Industrial and Manufacturing Engineering, by Svestka, Liou, and Lindeke, Prentice Hall Inc., March, 1991.
 - 2D and 3D Environments in Java, by Kostas Terzidis, Prentice Hall Inc., September, 2001
 - Notes for Computer Graphics Programming, by Steve Cunningham, Morgan Kaufmann Pub., July 2001
 - Software Engineering, 2e, by Eric Braude, John Wiley & Sons, Inc., 2004
- **JOURNAL PAPER REVIEW**
 - ETRI Journal – Information, Telecommunications & Electronics
 - IEEE Transactions on System, Man, and Cybernetics
 - IEEE Transactions on Software Engineering
 - Journal of Systems Integration
 - Journal of Software Engineering and Knowledge Engineering
 - Journal of Intelligent and Robotic Systems
 - Journal of Data and Knowledge Engineering
 - Journal of Information Sciences
 - International Journal of Computers and Applications
 - Journal of SMET Education: Innovations and Research
 - Journal of Systems and Software
 - The Computer Journal
- **CONFERENCE PAPER REVIEWER**
 - 2005 18th International Conference on Industrial & Engineering Applications of Artificial Intelligence and Expert Systems
 - 2004 ACM Southeast Conference
 - 2004 ACM Symposium on Applied Computing
 - 2003 SAINT Conference
 - 2003 16th International Conference on Industrial & Engineering Applications of Artificial Intelligence and Expert Systems
 - 2003 ACM Southeast Conference
 - 2002 15th International Conference on Industrial & Engineering Applications of Artificial Intelligence and Expert Systems
 - 2002 ASEE/IEEE Frontier in Education Conference
 - 2002 ACM Southeast Conference

- 2001 ACM Southeast Conference
- 2001 7th International Conference on Distributed Multimedia Systems
- 2001 ASEE/IEEE Frontiers in Education Conference
- 2001 13th International Conference on Software Engineering and Knowledge Engineering
- 2001 14th International Conference on Industrial & Engineering Applications of Artificial Intelligence and Expert Systems
- 2000 ASEE/IEEE Frontiers in Education Conference
- 2000 First International Chinese Computing Conference
- 2000 ACM Southeast Conference
- 2000 IEEE CSMR
- 2000 ACM Symposium of Applied Computing
- 1999 ACM Southeast Conference
- 1999 ACM Symposium of Applied Computing
- 1998 ACM Symposium of Applied Computing
- 1998 11th International Conference on Industrial & Engineering Applications of Artificial Intelligence and Expert Systems
- 1998 Annual ACM Southeast Conference
- 1997 10th International Conference on Industrial & Engineering Applications of Artificial Intelligence and Expert Systems
- 1997 9th International Conference on Software Engineering and Knowledge Engineering
- 1997 7th International Conference on Software Quality Conference
- 1997 International Conference on Frontier in Education
- 1996 ACM Computer Science Conference
- 1996 9th International Conference on Industrial & Engineering Applications of Artificial Intelligence and Expert Systems
- 1996 Annual ACM Southeast Conference
- 1995 8th International Conference on Industrial & Engineering Applications of Artificial Intelligence and Expert Systems
- 1995 ACM Computer Science Conference
- 1994 ACM Computer Science Conference
- 1994 Annual ACM Southeast Regional Conference
- 1993 ACM Computer Science Conference
- 1993 XXI North America Manufacturing Research Institute (NAMRI) Conference
- 1992 ACM Computer Science Conference
- 1992 4th International Conference on Software Engineering and Knowledge Engineering
- 1991 ACM Computer Science Conference
- 1991 Annual ACM Southeast Regional Conference
- 1987 IEEE/ACM Fall Joint Computer Conference

1/9/07

Attachment I – Graduate Student Committees and Outside Reader

GRADUATED - Ph.D.

1. Ji, Yiming (CSSE, PhD, 5/2006)
2. Yoon, Daesub (CSSE, PhD, 5/2005)
3. Robert S. Owar (CSSE, Ph.D., 5/2004)
4. Zhong, Yaping (CSSE, PhD, 12/2003)
5. Morrison, Kelly (CSSE, 12/2002)
6. Carlisle, Anthony (CSSE, 12/2002)
7. Moore, Jackie (CSSE, 8/00)
8. Hunter, Steve (ISE, 6/00)
9. Mathias, Karl (CSSE, 12/99)
10. Hansen, Steven (CSE, Ph.D., 3/99)
11. Zhu, Ming J. (ChE, PhD, 3/96)
12. Vanchinathan, Srinivasan (ChE, PhD, 6/95)
13. Dannelly, R. Steve (CSE, PhD, 12/95)
14. Hwang, Doug (CSE, PhD, 8/95)
15. Schreiberman, David (CSE, Ph.D., 6/94)
16. Jodis, Steve (CSE, Ph.D., 3/94)
17. Chiu, C. Y. (IE, Ph.D., 12/1992)
18. Jou, S. Y. (IE, Ph.D, 6/1992.)
19. Shiau, Y. R. (IE, Ph.D., 12/1991)
20. Teng, Sheng-Hsien (IE, Ph.D., 8/1989)
21. Chung, Wen-Kai (CSE, Ph.D. 8/87)

GRADUATED – Master

22. Li, Zhenni (MSWE, 8/06)
23. Luo, Qing (MSWE, 5/2006)
24. Contance, Shawn (MSWE, 12/2005)
25. Kumar, Kishore S (MSWE, 5/2005)
26. Parks, Nicholas J. (MSWE, 12/04)
27. Kim, Young (MSWE, 12/04)
28. Shen, Tongmin (MS, 12/04)
29. Ahn, Tae-Seok (MS, 12/04)
30. Chatam, Wade (MSWE, 8/04)
31. Wu, Ye (MSWE, 5/04)
32. Keast, Steven (MSWE, 12/03)
33. Kim, Donghoon (MS, 12/03)
34. Zhang, Funing (MS(12/03)
35. Zhang, Yu (MSWE, 8/03)
36. Li, Xiaoyuan (MSWE, 5/03)
37. Xie, Hong (MS, 5/03)
38. Kim, Bonam (MSWE, 5/03)
39. Dai, Yawen (MSWE, 5/03)
40. Lin, Xiao-zhen (MSWE, 5/30)
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53. He, Wei (MCSE, 12/00)
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140. Rekapalli, Narayana (IE, MS, 12/92)
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151. Manley, Charles (CSE, MS, 8/1989)
152. Wu, Meizhen (CSE, MS, 8/1989)
153. Edhala, M. (CSE, MS, 3/1988)

CURRENT - Ph.D.

154. Muhdi, Rani (ISE)
155. Nekkanti, Rajiv (CSSE)
156. Agrawal, Ravikant (CSSE)
157. Fu, Ser-Geon (CSSE)

CURRENT - Master

158. Cang, Yurun (MSWE)
159. Yang, Junmo (MSWE)
160. Casey, Kenan (CSSE)
161. Garmon, Fennifer
162. Williams, Philicity
163. Herbst, Sharon

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1. Wang, Kezhou, Electrical and Computer Engineering, Auburn University, May, 2006
2. Huang, Jun, Electrical and Computer Engineering, Auburn University, December 2005
3. Yang, Haihua, Electrical and Computer Engineering, Auburn University, December 2004
4. Xiang Deng, Electrical and Computer Engineering, Auburn University, May 2004
5. Hong Xie, Physics, Auburn University, August 2001
6. Yan, Litao, Electrical Engineering, Auburn University, December 2000
7. Yen-Min Chern, Aerospace Engineering, Auburn University, June, 2000
8. Jun Miao, Civil Engineering, Auburn University, August, 1995.
9. Joseph Chen, Industrial Engineering, Auburn University, July, 1994.
10. Chiwen Li, Electrical Engineering, Auburn University, July, 1993.
11. F. Frank Young, Electrical Engineering, Auburn University, July, 1993.
12. Chung-Min Wu, Industrial Engineering, Auburn University, August 1991.
13. Paul C. Liu, Industrial Engineering, Auburn University, September, 1990.
14. Bobby Glenn McCullouch, Civil Engineering, Auburn University, April 1988.
15. Amar Hammouche, IE Dept., Auburn University, September, 1987.