

CURRICULUM VITA

CHIA-CHU CHIANG

OFFICE

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EDUCATION

Doctor of Philosophy, Computer Science, December 1995.
Arizona State University, Tempe, Arizona

Master of Science, Management Information Science, December 1988.
Eastern Michigan University, Ypsilanti, Michigan

Bachelor of Business Administration, Computer and Information Science, June 1981.
Soochow University, Taipei, Taiwan

PROFESSIONAL EXPERIENCE

Professor: July 2013 - Present, University of Arkansas at Little Rock, Department of Computer Science

Associate Professor: July 2007 – July 2013, University of Arkansas at Little Rock, Department of Computer Science

Assistant Professor: July 2001 – July 2007, University of Arkansas at Little Rock, Department of Computer Science.

Graduate Coordinator: January 2003 – December 2005, University of Arkansas at Little Rock, Department of Computer Science.

Joint Graduate Faculty: August 2001 – Present, University of Arkansas at Little Rock, Applied Science Department.

Joint Graduate Faculty: Summer 2005 – Present, University of Arkansas at Little Rock, UALR/UAMS Joint Graduate Program in Bioinformatics.

Software Engineer: May 1996 – August 2001, Allen Systems Group (formerly, Viasoft), Phoenix, Arizona.

- Developed and maintained the core code for re-engineering Assembly and PL/I legacy systems
- Designed and developed legacy renewal project that turns legacy systems in COBOL into distributed software component-based systems in C++ and COBOL with CORBA
- Developed the code to support the access CORBA objects in COBOL including the mapping of OMG IDL to COBOL, object invocation from COBOL clients and COBOL Object Adapter as described in CORBA OMG Language Mapping Specifications for COBOL

JOB DESCRIPTION

UALR ACM Student Chapter Advisor: The UALR ACM student chapter was previously UALR CPU student club. From the ACM Student Chapter bylaws, the faculty advisor shall

- Help provide continuity from year to year as student leadership and personnel change;
- Promote good student-faculty relationships;
- Help maintain university standards in all activities of the organization;
- Exercise financial supervision if necessary by promoting prompt payment of bills and collection of dues, and, in the event of dissolution of this chapter, overseeing the settlement of all accounts; and
- Represent the student chapter interests to the faculty and administration.

Assistant Professor: From the UALR (University of Arkansas at Little Rock) faculty handbook, the duties of an assistant professor include: teaching, scholarly activities, and service activities. A satisfactory accomplishment in teaching may be demonstrated through student evaluations, peer evaluations, self-evaluations, curriculum design and development, and creative/innovative strategies. A satisfactory accomplishment in scholarly activities may be demonstrated through publications, research and research project grants, performances, concerts, exhibitions, speeches/presentations to professional meetings, and awards/ recognition in professional activities. A satisfactory accomplishment in service activities may be demonstrated through committee/special project participation (department, college, university, system), discipline-related community involvement, working in and with professional organizations, relating discipline to the community, development of cooperative ventures between UALR and community, advisement of students, and participation in professional meetings.

Graduate Coordinator: From the UALR faculty handbook, the graduate coordinator works with the department chair and program faculty to

- Direct and coordinate the graduate program;
- Lead marketing and program recruitment efforts;
- Coordinate procedures for admission or denial of graduate program applications;
- Provide initial graduate student advising;
- Maintain departmental graduate student records and track all students in the program; and
- Handle graduate student petitions and appeals, lead graduate program planning and curriculum development, and coordinate program review and assessment.

CPU Advisor: From the constitution of Computer Persona at UALR (CPU), the primary duty of the advisor is to coordinate with the executive committee on any plans relating directly to the Computer Science Department and to be aware of CPU projects.

UALR Engineering Honor Society Advisor: In 2011, UALR EIT initiated its petitioning chapter, Tau Beta Beta (TBB) of Tau Beta Pi (TBP). I served as one of the TBB advisors. My responsibilities include the electing of new members as well as the creation and maintenance of a chapter web page. In addition, from the constitution of bylaws, the advisory board in general serves the primary guiding, counseling, and controlling agency for chapter work and activities. The advisory board also supplies continuity in chapter policy and practice.

HONORS AND AWARDS

- Best Paper Award of the 6th International Congress on Logistics and SCM Systems
- 16th Annual UALR Faculty Excellence Awards in Teaching Nominee
- 16th Annual UALR Cyber College Faculty Excellence Awards in Teaching
- Viasoft Company Outrageous Contributor
- Phi Kappa Phi National Honor Society
- Tau Beta Pi (TBP) The Engineering Honor Society
- Upsilon Pi Epsilon (UPE) International Honor Society for the Computing and Information Disciplines
- ASU Regents Graduate Student Scholarship
- EMU Dean's List

MEMBERSHIP IN PROFESSIONAL SOCIETIES

- ABET PEV Accreditation Board for Engineering and Technology
- ACM Association for Computing Machinery
- IEEE Institute of Electrical and Electronic Engineers

PUBLICATIONS

Book Chapters

Chia-Chu Chiang and Shucheng Yu, ‘Cloud-Enabled Software Testing Based on Program Understanding,’ In Scott Tilley (Ed.), *Software Testing in the Cloud: Perspectives on an Emerging Discipline*, Idea Publishing Group, Hershey: Pennsylvania, 2013. (ISBN: 978-1-4666-2536-5)

Yupo Chan, Jaouad Boukachour, Chia-Chu Chiang, Madan Mohan Dey, Charles-Henri Fredouët , Hing-Po Lo, Farhad Moeeni, and Albert K. Toh, ‘Cyber Transportation Logistics: Architecting a Global Value-Chain for Services,’ In Zongwei Luo (Ed.), *Service Science and Logistics Informatics: Innovative Perspective*, Idea Publishing Group, Hershey: Pennsylvania, USA, 2010. (ISBN: 978-1-61520-603-2)

Chia-Chu Chiang, ‘Software Modernization of Legacy Systems for Web Services Interoperability,’ In Pierre F. Tiako (Ed.), *Software Applications: Concepts, Methodologies*,

Tools, and Applications, Idea Publishing Group, Hershey: Pennsylvania, USA, 2009. (Reprint) (ISBN: 978-1-60566-060-8)

Oliver Strong, Chia-Chu Chiang, Haeng-Kon Kim, Byeongdo Kang, and Roger Lee, 'Layering MDA: Applying Transparent Layers of Knowledge to Platform Independent Models,' In R. Lee and N. Ishii (Ed.), *Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing*, Studies in Computational Intelligence, Vol. 209, Springer, Heidelberg, Germany, 2009, pp. 191-199.

Chia-Chu Chiang and Roger Lee, 'An Approach Using Formal Concept Analysis to Object Extraction in Legacy Code,' In R. Lee and N. Ishii (Ed.), *Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing*, Studies in Computational Intelligence, Vol. 209, Springer, Heidelberg, Germany, 2009, pp. 169-178.

Chia-Chu Chiang, 'Engineering Information into Open Documents,' In Samuli Niiranen, Jari Yli-Hietanen, and Artur Lugmayr (Ed.), *Open Information Management: Applications of Interconnectivity and Collaboration*, Idea Publishing Group, Hershey: Pennsylvania, USA, May 31, 2009. (ISBN: 978-1-60566-246-6)

Chia-Chu Chiang, 'Software Modernization of Legacy Systems for Web Services Interoperability,' In Mario Freire and Manuela Pereira (Ed.), *Encyclopedia of Internet Technologies and Applications*, Idea Publishing Group, Hershey: Pennsylvania, USA, October 31, 2007. (ISBN: 978-1-59140-993-9)

Journals

Chia-Chu Chiang and Albert K. Toh, 'Inter-Enterprise E-Commerce through SOA in the Cloud,' *International Journal of Society Systems Science*, (TO APPEAR)

Farhad Moeeni and Chia-Chu Chiang, 'Passive RFID-based Location, Algorithms, and Estimation Accuracy' *International Journal of RF Technologies: Research and Applications (IJRFT)*, Vol. 4, Numbers 3-4, 2013, pp. 147-161.

Chia-Chu Chiang, and Roger Lee, 'Coordination Languages and Models for Open Distributed Systems,' *International Journal of Software Innovation (IJSI)*, Vol. 1, Issue 1, 2013, pp. 1-13.

Donghwi Lee, Chia-Chu Chiang, Mal Re Lee, Herbert Kuchen, and Kenji Leibnitz, 'Introduction,' Special Issue on Middleware, Operating Systems and Applications, *Telecommunication Systems*, Vol. 51, Numbers 2-3, November 2012, pp. 93.

Hao Wu and Chia-Chu Chiang, 'Implementing a Coordination Model for Parallelism on Heterogeneous Computers,' *International Journal of Software Engineering and Its Applications*, Vol. 6, No. 2, April 2012, pp. 71-92.

Chia-Chu Chiang, Yupu Chan, Albert K. Toh, Radu Babiceanu, Jaouad Boukachour, Madan Mohan Dey, Charles-Henri Fredouët, Hing-Po Lo, Farhad Moeeni, 'Cloud-Enabled Transportation Logistics,' *International Journal of Logistics and SCM Systems*, 2011.

- Chia-Chu Chiang, 'Mainframe-Based Legacy Integration: An Industry Project,' *Tamkang Journal of Science and Engineering*, Vol. 11, No. 1, March 2008, pp. 55-64.
- Chia-Chu Chiang, 'Implicit Heterogeneous and Parallel Programming,' *ACM SIGSOFT Software Engineering Notes*, Volume 30, Issue 3, May 2005, pp. 1-6. (2 Non-self Citations in Google Scholar)
- Chia-Chu Chiang, 'Automated Rapid Prototyping of TUG Specifications Using Prolog,' *Information and Software Technology*, Vol. 46, No. 13, October 2004, Elsevier, pp. 857-873. (2 Non-self Citations in Google Scholar)
- Chia-Chu Chiang, 'Towards Quality of Software in TUG,' *Journal of Information Science and Engineering*, Vol. 20, No. 4, July 2004, iis, pp. 575-615.
- Hao Wu and Chia-Chu Chiang, 'A Network Teaching Tool for Visualizing and Analyzing Routing Protocols,' *Journal of Integrated Design & Process Science: Transactions of the SDPS*, Vol. 8, No. 2, June 2004, pp. 29-36.
- Herbert H. Tompson, Chia-Chu Chiang, Ibrahim K. El-Far, Stefan Gruner, Markus Montigel, and James A. Whittaker, 'Editorial: Special Issue on Software Engineering Applications, Practices and Tools from the ACM symposium on Applied Computing,' *Information and Software Technology*, Vol. 46, No. 5, April 2004, Elsevier, pp. 279-280. (1 Non-self Citation in Scopus)
- Herbert H. Tompson, Chia-Chu Chiang, Ibrahim K. El-Far, Stefan Gruner, Markus Montigel, and James A. Whittaker, 'Editorial: ACM SAC'03, Special Track on Software Engineering: Applications, Practices and Tools,' Ed. Will Tracz, *ACM SIGSOFT Software Engineering Notes*, Vol. 28, No. 2, March 2003, pp. 8-9.
- Chia-Chu Chiang, 'The Use of Adapters to Support Interoperability of Components for Reusability,' *Information and Software Technology*, Vol. 45, No. 3, March 2003, Elsevier, pp.149-156. (7 Non-self Citations in Scopus, 18 Non-self Citations in Google Scholar)
- Chia-Chu Chiang, Roger Y. Lee, and Haeng-Kon Kim 'The Use of Adapters to Increase Component Reusability,' *International Journal of Computer & Information Science*, Vol. 3, No. 4, 2002, ACIS, pp. 279-288. (Invited Paper)
- Chia-Chu Chiang, 'Wrapping Legacy Systems for Use in Heterogeneous Computing Environments,' *Information and Software Technology*, Vol. 43, No.8, July 2001, Elsevier, pp. 497-507. (4 Non-self Citations in Scopus, 16 Non-self Citations in Google Scholar)
- Chia-Chu Chiang, 'Structured Design with Mathematical Proofs,' *Information and Software Technology*, Vol. 39, No. 10, October 1997, Elsevier, pp. 669-677. (1 Non-self Citation in Scopus, 1 Non-self Citation in Google Scholar)

Conferences

Ryan Hayward and Chia-Chu Chiang, 'Parallelizing Fully Homomorphic Encryption,' *Proceedings of the 2014 International Symposium on Computer, Consumer and Control (IEEE IS3C 2014)*, June 10-12, 2014, Taichung, Taiwan.

Chia-Chu Chiang, 'Software Development Concerns in the Building of Service-Oriented Based Enterprise Systems,' *Proceedings of the 2014 International Symposium on Computer, Consumer and Control (IEEE IS3C 2014)*, June 10-12, 2014, Taichung, Taiwan.

Ryan Hayward and Chia-Chu Chiang, 'Building a Cloud Computing System in OpenStack: An Experience Report,' *Proceedings of the International Conference on Applied and Theoretical Information Systems Research (ATISR 2013)*, November 22-24, 2013, Taipei, Taiwan. (IN CD)

Ryan Hayward and Chia-Chu Chiang, 'An Architecture for Parallelizing Fully Homomorphic Cryptography on Cloud,' *Proceedings of the 7th International Conference on Complex, Intelligent, and Software Intensive Systems (CISIS 2013)*, July 3-5, 2013, Taichung, Taiwan, pp. 72-77.

Wes Copeland and Chia-Chu Chiang, 'A Method for Fetal Assessment Using Data Mining and Machine Learning,' *Proceedings of the 2012 International Conference on Information Security and Intelligent Control (ISIC'12)*, August 14-16, 2012, Yunlin, Taiwan.

Wes Copeland and Chia-Chu Chiang, 'Securing Enterprise Mobile Information,' *Proceedings of the 2012 International Symposium on Computer, Consumer and Control (IEEE IS3C 2012)*, June 4-6, 2012, Taichung, Taiwan.

Wes Copeland and Chia-Chu Chiang, 'A Managed Security Environment for Enterprise iPhones,' *Proceedings of the 50th Annual ACM Southeast Conference (ACM ACMSE 2012)*, March 29-31, 2012, Tuscaloosa: Alabama, USA, pp. 136-141.

Chia-Chu Chiang, 'Program Derivation by Specification' *Proceedings of the 2012 International Conference on Applied and Theoretical Information Systems Research (ATISR 2012)*, February 10-12, 2012, Taipei, Taiwan. (IN CD)

Hao Wu and Chia-Chu Chiang, 'Implementing a Coordination Model for Parallelism on Heterogeneous Computers,' *Proceedings of the 2011 International Conference on Advanced Software Engineering & Its Applications (ASEA 2011)*, Software Engineering, Business Continuity, and Education, Communications in Computer and Information Science, Volume 257, Springer Berlin Heidelberg, December 8-10, 2011, Jeju Island, Korea, pp. 228-236.

Chia-Chu Chiang and Bill Marshall, 'Location Tracking for Intelligent Lighting Control Using Wireless Sensors,' *Proceedings of the 2011 National Symposium on System Science and Engineering (NSSSE 2011)*, June 17-18, 2011, Nantou, Taiwan, pp. 414-418.

Chia-Chu Chiang, Yupo Chan, Albert K. Toh, Radu Babiceanu, Jaouad Boukachour, Madan Mohan Dey, Charles-Henri Fredouët, Hing-Po Lo, Farhad Moeeni, 'Agile Enterprise Architecture for Cyber Transportation Logistics on Cloud Computing,' *Proceedings of The 6th International Congress on Logistic and SCM Systems (ICLS 2011)*, March 7-9, 2011, Kaohsiung, Taiwan. **(ICLS 2011, The Best Paper Award)**

Chia-Chu and Shen Lu, 'Distributed Association Mining on Message Passing Systems,' *Proceedings of the 2010 IEEE International Symposium on Parallel and Distributed Processing with Applications (ISPA10)*, September 6-9, 2010, Taipei, Taiwan, pp. 208-214.

Chia-Chu Chiang, 'Programming Parallel Apriori Algorithms for Mining Association Rules,' *Proceedings of the 2010 IEEE International Conference of System Science and Engineering (ICSSE 2010)*, July 1-3, 2010, Taipei, Taiwan, pp. 593-598.

Chia-Chu Chiang and Bill Marshall, 'Applying Software Product Line Technology to Prototyping of Real-Time Object Tracking,' *Proceedings of the 2009 IEEE International Conference on Systems, Man and Cybernetics (IEEE SMC 2009)*, October 11-14, 2009, San Antonio: Texas, USA, pp. 2099-2104.

Chia-Chu Chiang, Coskun Bayrak, Remzi Seker, Umit Topaloglu, Murat Demirer, Nasrola Samadi, Suleyman Tek, Bian Jiang, GuangXu Zhou, and Xiaoran Wang, 'Design of a Lattice-based Access Control Scheme,' *Proceedings of the 2009 IEEE International Conference on Systems, Man and Cybernetics (IEEE SMC 2009)*, October 11-14, 2009, San Antonio: Texas, USA, pp. 68-73.

Chia-Chu Chiang and Coskun Bayrak, 'Concurrency and Time in Role-Based Access Control,' *Proceedings of the 3rd International Conference on Information and Assurance (ISA-09)*, June 25-27, 2009, Seoul, Korea, Springer-Verlag, Berlin Heidelberg, Germany, CCIS 36, pp. 37-42.

Chia-Chu Chiang, 'An Implementation of a Framework for Open Distributed Computing,' *Proceedings of the 9th International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP)*, June 8-11, 2009, Taipei: Taiwan, ROC, Springer-Verlag, Berlin Heidelberg, Germany, LNCS 5574, pp. 569-579.

John Talburt and Chia-Chu Chiang, 'Identity Resolution for Fraud Investigation,' *Proceedings of the International Conference of Computing in Engineering, Science, and Information (ICC 2009)*, April 2-4, 2009, Fullerton: California, USA, pp. 97-99.

Chia-Chu Chiang and Coskun Bayrak, 'Modeling Role-Based Access Control Using a Relational Database Tool,' *Proceedings of the 2008 IEEE International Conference on Information Reuse and Integration (IEEE IRI 2008)*, July 13-15, 2008, Las Vegas: Nevada, USA, pp. 7-10.

Jiang Bian, Umit Topaloglu, Remzi Seker, Coskun Bayrak, Chia-Chu Chiang, 'A Role-based Secure Group Communication Framework,' *Proceedings of the Third International*

Conference on System of Systems Engineering (IEEE SoSE 2008), June 2-4, 2008, Monterey: California, USA, pp. 1-6.

Chia-Chu Chiang and Tong-Seing, 'A Methodology to Analyze Programs for Program Understanding,' *Proceedings of the Eleventh SDPS Transdisciplinary Conference on Integrated Systems, Design, & Process Science (IDPS 2008)*, June 1-6, 2008, Taichung: Taiwan, ROC.

Chia-Chu Chiang, John Talburt, Ningning Wu, Elizabeth Pierce, Chris Heien, Ebony Gulley, and JaMia Moore, 'A Case Study in Partial Parsing Unstructured Text,' *Proceedings of the IEEE 5th International Conference on Information Technology: New Generations (ITNG 2008)*, April 7-9, 2008, Las Vegas: Nevada, USA, pp. 447-452.

John Talburt, Chia-Chu Chiang, Ningning Wu, Stephen Lucero, Abhinandan Katkuri, Cedric Konyaole, Miao Nie, Arijit Sarkar, Jonathan Loghry, David Nash, and Jeff Stires, 'A Semiotic Approach to File Layout Inference,' *Proceedings of the 2008 Conference on Applied Research in Information Technology (ALAR 2008)*, March 14, 2008, Conway: Arkansas, USA.

M. E. Fayad, Chia-Chu Chiang, Pablo Chacin, Srinu Ramaswamy, Arturo J. Sanchez-ruiz, and Selmin Nurcan, 'The First International Workshop on Patterns Languages: Addressing Challenges (PLAC2007),' *Companion to Proceedings of the 22nd Annual ACM SIGPLAN Conference on Object Oriented Programming Systems and Applications (OOPSLA'07)*, October 21-25, 2007, Montreal: Quebec, Canada, pp. 743-745.

Chia-Chu Chiang, 'Software Stability in Software Reengineering,' *Proceedings of the 2nd IEEE International Workshop on Software Stability at Work (SSW 2007)*, August 13-15, 2007, Las Vegas: Nevada, USA, pp. 719-723.

John R. Talburt, Ningning Wu, Elizabeth Pierce, Chia-Chu Chiang, Chris Heien, Ebony Gulley, JaMia Moore, 'Entity Identification in Documents Expressing Shared Relationships,' *Proceedings of the 11th World Scientific and Engineering Academy and Society International Conference on SYSTEMS (WSEAS ICS 2007)*, July 23-25, 2007, Agios Nikolaos, Crete Island, Greece, Vol. 2, pp. 223-228.

Matthew Reed, Benjamin Balogh, David Miller, and Chia-Chu Chiang, 'Developing and Learning Web Services with Open Source Software: An Experience Report,' *Proceedings of the Thirteenth Annual Consortium for Computing Sciences in Colleges Central Plains 2007 (CCSC 2007)*, April 13-14, 2007, Springfield: Missouri, USA, pp. 93-100.

Chia-Chu Chiang, 'Engineering Documents into XML Formats,' *Proceedings of the Fourth International Conference on Information Technology: New Generations (IEEE ITNG 2007)*, April 2-4, 2007, Las Vegas: Nevada, USA, pp. 610-615.

Ningning Wu, John Talburt, Chris Heien, Nick Pippenger, Chia-Chu Chiang, Elizabeth Pierce, Ebony Gulley, JaMia Moore, 'A Method for Entity Identification in Open Source Documents

with Partially Redacted Attributes,’ *Proceedings of Fifth Annual Mid-South College Computing Conference (MSCCC 2007)*, March 30-31, 2007, Monroe: Louisiana, USA, pp. 138-144.

Chia-Chu Chiang, ‘Reengineering a Legacy Tool for Software Evolution,’ *Proceedings of the 14th Annual IEEE International Conference and Workshop on the Engineering of Computer Based Systems (ECBS 2007)*, March 26-29, 2007, Tucson: Arizona, USA, pp. 393-396.

Chia-Chu Chiang, ‘Automated Software Wrapping,’ *Proceedings of the 45th ACM Southeast Conference (ACM ACMSE 2007)*, March 23-24, 2007, Winston-Salem: North Carolina, USA, pp. 59-64.

Chia-Chu Chiang, ‘Introducing Proofs of a Program’s Termination in an Undergraduate Software Engineering Course,’ *Proceedings of the 2006 IEEE International Conference on Systems, Man and Cybernetics (IEEE SMC 2006)*, October 8-11, 2006, Taipei: Taiwan, ROC, pp. 3927-3931.

Coskun Bayrak, Hayrettin Kolukisaoglu, and Chia-Chu Chiang, ‘Di-Learn: Distributed Knowledge Discovery with Human Interaction,’ *Proceedings of the 2006 IEEE International Conference on Systems, Man and Cybernetics (IEEE SMC 2006)*, October 8-11, 2006, Taipei: Taiwan, ROC, pp. 3354-3359.

Chia-Chu Chiang and Coskun Bayrak, ‘Legacy Software Modernization,’ *Proceedings of the 2006 IEEE International Conference on Systems, Man and Cybernetics (IEEE SMC 2006)*, October 8-11, 2006, Taipei: Taiwan, ROC, pp. 1304-1309.

Benjamin Balogh, Matthew Reed, David Miller, and Chia-Chu Chiang, ‘Web Enabled Service Implementation – Telephone Directory Prototype,’ *Proceedings of the 2006 IEEE International Conference on Information Reuse and Integration (IEEE IRI 2006)*, September 16-18, 2006, Waikoloa: Hawaii, USA, pp. 385-388.

Yanbin Ye and Chia-Chu Chiang, ‘A Parallel Apriori Algorithm for Frequent Itemsets Mining,’ *Proceedings of the 4th ACIS/IEEE International Conference on Software Engineering Research, Management & Applications (ACIS/IEEE SERA 2006)*, August 9-11, 2006, Seattle: Washington, USA, pp. 87-93.

Chia-Chu Chiang, ‘TUG: an Executable Specification Language,’ *Proceedings of the 5th IEEE/ACIS International Conference on Computer and Information Science (IEEE/ACIS ICIS 2006)*, July 12-14, 2006, Honolulu: Hawaii, USA, pp. 180-186.

Chia-Chu Chiang, ‘Extracting Business Rules from Legacy Systems into Reusable Components’, *Proceedings of the 2006 IEEE International Conference on System of Systems Engineering (IEEE SoSE 2006)*, April 24-26, 2006, Los Angeles: California, USA, pp. 350-355.

Chia-Chu Chiang, ‘A Language for Writing Formal Software Specifications: the Library Problem Revisited,’ *Proceedings of the Third International Conference on Information*

Technology: New Generations (IEEE ITNG 2006), April 10-12, 2006, Las Vegas: Nevada, USA, pp. 66-71.

Brian Ray, Chia-Chu Chiang, and Jim Melescue, 'Text Extraction on Windows-Based Documents,' *Proceedings of the Eighteenth International Conference on Systems Engineering (IEEE ICSEng 2005)*, August 16-18, 2005, Las Vegas: Nevada, USA, pp. 205-210.

Ashok Kumar Harikumar, Roger Lee, Chia-Chu Chiang, and Hae-Sool Yang, 'An Event Driven Architecture for Application Integration using Web Services,' *Proceedings of the 2004 IEEE International Conference on Information Reuse and Integration (IEEE IRI 2005)*, August 15-17, 2005, Las Vegas: Nevada, USA, pp. 542-547.

Roger Lee, Ashok Harikumar, Chia-Chu Chiang, Hae-Sool Yang, Haeng-Kon Kim, and Byeongdo Kang, 'A Framework for Dynamically Converting Components to Web Services,' *Proceedings of the 3rd ACIS International Conference on Software Engineering Research, Management & Applications (IEEE/ACIS SERA 2005)*, August 11-13, 2005, Central Michigan University, Mount Pleasant: Michigan, USA, pp. 431-437.

Prasad Rajagopal, Roger Lee, Tom Ahlswede, Chia-Chu Chiang, and Dale Karolak, 'A New Approach for Software Requirements Elicitation,' *Proceedings of the 6th ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (ACIS SNPD 2005)*, May 23-25, 2005, Towson University: Maryland, USA, pp. 32-42.

Brian Ray, Chia-Chu Chiang, and Jim Melescue, 'Retrieving and Modifying Documents in the Microsoft Windows[®] Printing System,' *Proceedings of The Second Global Educational Technology Symposium (GETS 2005)*, May 4-6, 2005, University of Arkansas at Little Rock, Little Rock: Arkansas, USA.

Chia-Chu Chiang, 'An Introduction to TUG: a Language for Writing Reusable Formal Program Specifications,' *Proceedings of the IEEE International Conference on Information Technology Coding and Computing (IEEE ITCC 2005)*, Vol. 2, April 11-13, 2005, Las Vegas: Nevada, USA, pp. 316-321.

Chia-Chu Chiang, 'An Adapter to Promote Reusability of CORBA Components in COBOL,' *Proceedings of the IEEE International Conference on Information Technology Coding and Computing (IEEE ITCC 2005)*, Vol. 2, April 11-13, 2005, Las Vegas: Nevada, USA, pp. 310-315.

Chia-Chu Chiang, 'Development of Concurrent Systems through Coordination,' *Proceedings of the IEEE International Conference on Information Technology Coding and Computing (IEEE ITCC 2005)*, Vol. 1, April 11-13, 2005, Las Vegas: Nevada, USA, pp. 274-279.

Charles Wesley Ford, Chia-Chu Chiang, Hao Wu, Radhika R. Chilka, and John Talburt, 'Text Data Mining: A Case Study,' *Proceedings of the IEEE International Conference on*

Information Technology Coding and Computing (IEEE ITCC 2005), Vol. 1, April 11-13, 2005, Las Vegas: Nevada, USA, pp. 122-127.

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Chia-Chu Chiang, 'Implementing Distributed and Parallel Applications through Collaboration,' *Proceedings of the 2005 IEEE International Conference on Networking, Sensing and Control (IEEE ICNSC 2005)*, March 19-22, 2005, Tucson: Arizona, USA, pp. 560-565.

Chia-Chu Chiang and Charles Wesley Ford, 'Maintainability and Reusability Issues in CORBA-based Systems,' *Proceedings of the 43rd Annual ACM Southeast Conference (ACM ACMSE 2005)*, Volume 2, March 18-19, 2005, Kennesaw: Georgia, USA, pp. 275-280.

Chia-Chu Chiang and Roger Lee, 'Developing Tools for Reverse Engineering in a Software Product-Line Architecture,' *Proceedings of the 2004 IEEE International Conference on Information Reuse and Integration (IEEE IRI 2004)*, November 8-10, 2004, Las Vegas: Nevada, USA, pp. 42-47.

Chia-Chu Chiang and Peiyi Tang, 'A Formal Method Applied to Reverse Engineering,' *Proceedings of the 2004 International Conference on Software Engineering Research and Practice (SERP'04), The 2004 International Multiconference in Computer Science and Computer Engineering*, June 21-24, 2004, Las Vegas: Nevada, USA, pp. 493-497.

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Chia-Chu Chiang and Zhendong Chen, 'A CORBA Adapter to Promote Reusability of Java Components,' *Proceedings of the 3rd ACM International Symposium on Information and Communication Technologies (ACM ISICT 2004)*, June 16-18, 2004, Las Vegas: Nevada, USA, pp. 256-261.

Charles Wesley Ford, Chia-Chu Chiang, Hao Wu, Radhika R. Chilka, and John Talburt, 'Confidence on Approximate Query in Large Datasets,' *Proceedings of the IEEE International Conference on Information Technology Coding and Computing (IEEE ITCC 2004)*, April 5-7, 2004, Las Vegas: Nevada, USA, pp. 480-484.

Chia-Chu Chiang and Peiyi Tang, 'On the Design of Heterogeneous Distributed Coordinated Applications,' *Proceedings of the IEEE International Conference on Information Technology Coding and Computing (IEEE ITCC 2004)*, April 5-7, 2004, Las Vegas: Nevada, USA, pp. 625-629.

- Chia-Chu Chiang, 'Low-Level Language Constructs Considered Harmful for Distributed Parallel Programming,' *Proceedings of the 42nd Annual ACM Southeast Conference (ACM ACMSE 2004)*, April 2-3, 2004, Huntsville: Alabama, USA, pp. 279-284.
- Chia-Chu Chiang, 'Teaching a Formal Method in a Software Engineering Course,' *Proceedings of Second Annual Mid-South College Computing Conference (ACM MSCCC 2004)*, April 2-3, 2004, Little Rock: Arkansas, USA, pp. 39-52.
- Ibrahim K. El-Far, Chia-Chu Chiang, Stefan Gruner, Markus Montigel, and Herbert H. Tompson, 'Editorial message: special track on software engineering: applications, practices, and tools,' *Proceedings of the 19th ACM Symposium on Applied Computing (ACM SAC 2004)*, March 14-17, 2004, Nicosia: Cyprus, pp. 1511-1512.
- Chia-Chu Chiang and Peiyi Tang, 'Middleware Support for Coordination in Distributed Applications,' *Proceedings of the Fifth IEEE International Symposium on Multimedia Software Engineering (IEEE MSE 2003)*, December 10-12, 2003, Taichung: Taiwan, ROC, pp. 148-155.
- Hao Wu and Chia-Chu Chiang, 'A Network Teaching Tool for Visualizing and Analyzing Routing Protocols,' *Proceedings of the Seventh World Conference on Integrated Design & Process Technology (SDPS IDPT'03)*, December 3-5, 2003, Austin: Texas, USA.
- Chia-Chu Chiang, 'Towards Software Reuse Using Parameterized Formal Specifications,' *Proceedings of the 2003 IEEE International Conference on Information Reuse and Integration (IEEE IRI 2003)*, October 27-29, 2003, Las Vegas: Nevada, USA, pp. 519-526.
- Chia-Chu Chiang, 'LIM: A Layered Interconnection Model for Improving Component Reuse,' *Proceedings of the 2003 IEEE International Conference on Systems, Man & Cybernetics (IEEE SMC 2003)*, October 5-8, 2003, Washington D.C., USA, pp. 142-147.
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- Chia-Chu Chiang, 'LIM: A Layered Interconnection Model for Improving Component Reuse,' *Proceedings of the 2003 IEEE International Conference on Systems, Man & Cybernetics (IEEE SMC 2003)*, October 5-8, 2003, Washington D.C., USA, pp. 142-147.

- Hao Wu and Chia-Chu Chiang, 'A Test Cases Generation Tool for Software Testing,' *Proceedings of the 1st ACIS International Conference on Software Engineering Research & Applications (ACIS SERA '03)*, June 25-27, 2003, San Francisco: California, USA, pp. 70-75.
- Chia-Chu Chiang, 'Development of Reusable Components through the Use of Adapters,' *Proceedings of the Thirty-Sixth Annual Hawaii International Conference on System Sciences (IEEE HICSS-36)*, January 6-9, 2003, Big Island: Hawaii, USA.
- Chia-Chu Chiang, 'A Formal Method with TUG for Developing Reliable Programs,' *Proceedings of the Thirteenth Symposium on Software Reliability Engineering (IEEE ISSRE 2002)*, November 12-15, 2002, Annapolis: Maryland, USA, Supplementary Proceedings, pp 171-172.
- Chia-Chu Chiang, 'An Adapter for Implementing CORBA Objects in COBOL,' *Proceedings of the Fifteenth International Conference on Systems Engineering (ICSEng 2002)*, August 6-8, 2002, Las Vegas: Nevada, USA, pp. 494-500.
- Chia-Chu Chiang and David Neubart, 'A Formal Method for Proving Programs Correct,' *Proceedings of the 1st IEEE International Conference on Systems, Man, and Cybernetics, (IEEE SMC 2001)*, Vol. 2, October 7-10, 2001, Tucson: Arizona, USA, pp.718-723. *(This paper is selected for the reading list of CS4318 – Software Engineering 5 by Dr. Michael English, at Department of CSIS, University of Limerick, Ireland.)*
- Chia-Chu Chiang, 'A Distributed Object Computing Architecture for Leveraging Software Reengineering Systems,' *Proceedings of the 16th ACM Symposium on Applied Computing (ACM SAC 2001)*, March 11-14, 2001, Las Vegas: Nevada, USA, pp. 653-657.
- Chia-Chu Chiang, 'Leveraging Software Reengineering Systems for Heterogeneous Distributed Computing Environments,' *Proceedings of the International Conference on Software Maintenance 2000 in Silicon Valley (IEEE ICSM'2000 SV)*, October 11-14, 2000, San Jose: California, USA, pp. 254-261.
- Chia-Chu Chiang, 'A Distributed Object Computing Architecture for Software Reengineering,' *Proceedings of the 19th IEEE International Performance, Computing, and Communications Conference (IEEE IPCCC 2000)*, February 20-22, 2000, Phoenix: Arizona, USA, pp. 380-386.
- Chia-Chu Chiang and Joseph E. Urban, 'Validating Software Specifications against User Claims,' *Proceedings of the Twenty-Third Annual International Computer Software & Applications Conference (IEEE COMPSAC 99)*, October 27-29, 1999, Phoenix: Arizona, USA, pp. 104-109.
- Chia-Chu Chiang, 'RT-TUG: A Specification Language for Real-Time Systems,' *Proceedings of the 3rd Annual IASTED International Conference on Software Engineering and Applications (IASTED SEA '99)*, October 6-8, 1999, Scottsdale: Arizona, USA, pp. 309-313.

Roger Y. Lee, Stuart H. Rubin, Chia-Chu Chiang, and Narayan C. Debnath, 'Component-Based Software Engineering: Building a System by Assembly,' *Proceedings of the 17th Annual AoM/IAoM International Conference on Computer Science (AoM/IAoM CSC 99)*, Vol. 17, No. 2, August 6-8, 1999, San Diego: California, USA, pp. 177-182.

Chia-Chu Chiang and Roger Y. Lee, 'An Object-Oriented Approach to Translating COBOL to C++ Programs,' *Proceedings of the 17th Annual AoM/IAoM International Conference on Computer Science (AoM/IAoM CSC 99)*, Vol. 17, No. 1, August 6-8, 1999, San Diego: California, USA, pp. 136-140.

Chia-Chu Chiang, 'Reengineering Enterprise Systems for Y2K Compliance,' *Proceedings of the 23rd Annual Conference, The Chinese-American Academic and Professional Association in Southeastern United States (CAPASUS 99)*, July 9-11, 1999, Atlanta: Georgia, USA, pp. 29-38.

Chia-Chu Chiang and Dave Neubart, 'Constructing Reusable Specifications through Analogy,' *Proceedings of the 1999 ACM Symposium on Applied Computing (ACM SAC'99)*, February 28-March 2, 1999, San Antonio: Texas, USA, pp. 586-592.

Chia-Chu Chiang, 'CTUG: A Formal Specification Language for Distributed Systems,' *Proceedings of the IASTED International Conference on Software Engineering (IASTED SE'98)*, October 28-31, 1998, Las Vegas: Nevada, USA, pp. 1-4.

Chia-Chu Chiang, 'Rigorous Software Development with TUG,' *Proceedings of the 4th International Conference of Information Systems Analysis and Synthesis (ISAS-98), the World Multiconference in Systemics, Cybernetics and Informatics (SCI-98)*, July 12-16, 1998, Orlando: Florida, USA, pp. 288-295.

Chia-Chu Chiang, 'A Meta Model for Consistency Checking of Structured Design,' *Proceedings of the IASTED International Conference on Software Engineering (IASTED SE'97)*, November 2-4, 1997, San Francisco: California, USA, pp. 329-333.

Chia-Chu Chiang and Joseph E. Urban, 'Scalable Templates for Specification Reuse,' *Proceedings of the Twentieth-First Annual International Computer Software & Applications Conference (IEEE COMPSAC 97)*, August 13-15, 1997, Washington DC: USA, pp. 396-401.

Chia-Chu Chiang and Joseph E. Urban, 'Development of the TUG Specification Language to Support Specification Reuse,' *Proceedings of the Eighteenth Annual International Computer Software & Applications Conference (IEEE COMPSAC'94)*, November 9-11, 1994, Taipei: Taiwan, ROC, pp. 17-22.

FUNDED RESEARCH GRANTS

1. *MRI: Acquisition of a Cloud Computing Infrastructure for Research and Education*, NSF, CO-PI with Dr. Shucheng Yu (PI), Dr. Mengjun Xie, Dr. Kenji Yoshigoe, \$ 108,125.00, 9/1/2013 – 8-31-2015.

2. *The Cultural Aspects of Software Development in Japan*, The Japan Foundation, Japan-America Collegiate Exchange Travel Program, PI, \$18,530.00, 11/9/2012 – 11/17/2012.
3. *Life Guard Self-Help System*, Department of Veterans Affairs, CO-PI with Remzi Seker (PI), Dr. Radu Babiceanu, Dr. Keith Bush, and Dr. Kevin Cates, \$150,000.00, 9/1/2011–8/31/2012.
4. *A Method for Fatal Assessment Using Data Mining and Machine Learning*, Arkansas Department of Higher Education (ADHE), Mentor with Mr. Wes Copeland, \$4,000.00, 1/1/2012 – 12/31/2012.
5. *Managed Security on iPhones*, Arkansas Department of Higher Education (ADHE), Mentor with Mr. Wes Copeland, \$4,000.00, 1/1/2011 – 12/31/2011.
6. *The Automatic Lighting Control System*, PI, Department of Theater Arts & Dance, University of Arkansas at Little Rock, \$4000.00, 8/1/2008 – 7/31/2009.
7. *A Semiotic Approach to Layout Inference and Data Transformation*, CO-PI with Dr. John Talburt (PI), and Dr. Ningning Wu at University of Arkansas at Little Rock, \$65,000.00, 8/1/2007 – 7/31/2008.
8. *The Polymorphic Encryption and Decryption Method*, USA DOD, CO-PI with Dr. Coskun Bayrak (PI), Dr. Remzi Seker, and Dr. Topaloglu Umit, \$1,000,000.00, 5/16/2007 – 9/30/2008.
9. *Methods and Techniques for Entity Identification in Open Source Documents with Partially Redacted Attributes*, NSF IIS, CO-PI with Dr. John Talburt (PI), Dr. Ningning Wu at University of Arkansas at Little Rock, and Dr. Richard Wang at Massachusetts Institute of Technology, \$234,482.00, 7/15/2006 – 6/30/2007.
10. *Development of an Interdisciplinary Arkansas Emulation Laboratory*, NSF CNS, CO-PI with Dr. Srinivas Ramaswamy (PI), Dr. Hussain Al-Rizzo, Dr. Mariofanna Milanova, and Dr. Remzi Seker at University of Arkansas at Little Rock, \$299,750.00, 8/1/2006 – 7/31/2009.
11. *The Mailing List Export Tool*, CognitiveDATA, Inc., CO-PI with Dr. Sean Geoghegan (PI) and Dr. Srinivas Ramaswamy at University of Arkansas at Little Rock, \$22,057.91, 9/26/2005 – 1/15/2006.
12. *The Multi-Platform AutoMail System*, Syntel™ LLC., PI, \$60,454.00, 3/1/2004 – 2/28/2005.
13. *An Architecture for Capturing, Storing, and Connecting Event Information for Customer Data Integration*, Acxiom, CO-PI with Dr. Charles Wesley Ford (PI) at University of Arkansas at Little Rock, \$152,000.00, 8/2003 – 8/2004.

14. *Review and Validation of MaRMI – III*, ETRI, (PI) with Dr. Roger Lee (PI) at Software Engineering Information Technology Institute (SEITI), Central Michigan University, \$3,000.00, 12/2002 – 1/2003.

RESEARCH GRANT PROPOSALS PENDING

15. *REU Site: CyberSAFE@UALR: Cyber Security and Forensics Research at University of Arkansas at Little Rock*, NSF REU, CO-PI with Dr. Mengjun Xie (PI) at University of Arkansas at Little Rock. (Recommended)

RESEARCH GRANT PROPOSALS DECLINED

16. *Correlating Behaviors and Predicting Academic Performance of Students with Programming Difficulties to Improve Teaching and Learning*, NSF DUE TUES, PI with Dr. Jim J. Vander Putten, \$157,007.00, 1/14/2013 – 1/13/2013.
17. *A Tool for Fetal Assessment by Magnetocardiographic Evaluation (FAME)*, NIH, CO-PI with Dr. R. B. Govindan (PI), \$750,000.00, 9/30/2011 – 8/31/2014.
18. *Using Formal Concept Analysis and Fuzzy-Set Theory for Anaphora Resolution in Natural Language Understanding*, ONR BAA 10-013, PI with Dr. Michael Kleine, \$393,290.00, 10/1/2010 – 9/30/2013.
19. *An introduction to Distributed Parallel Programming for Undergraduates in Science, Technology, Engineering, and Mathematics*, NSF DUE CCLI, PI with Dr. Sally Robinson and Dr. Gary Anderson, \$144,051.00, 2/1/2009 – 2/1/2011.
20. *An Easy to Use Distributed Computing Framework – DCEZ*, NSF DUE CCLI, Senior Personnel with Dr. Charles Pheatt (PI), Dr. Jorge Ballester, and Dr. Yixin Yang at Emporia State University, Dr. Venkat Gudivada at Marshall University, and Dr. Paul Wiedemeier at University of Louisiana at Monroe, \$149,938.00, 5/2007 – 4/2009.
21. *An Improvement on the Laboratory Environment for Teaching Undergraduates Net-Centric Computing*, NSF DUE, PI with Dr. Kenji Yoshigoe at University of Arkansas at Little Rock, \$103,928.00, 1/2007 – 12/2008.
22. *Middleware Support for Coordination in Distributed Application*, NSF ANI, PI with Dr. Peiyi Tang at University of Arkansas at Little Rock, \$248,554.00, 8/2003 – 7/2006.
23. *CAREER: An Interconnection Model for Building Reusable Components with Middleware*, NSF CCR, PI, \$669,939.00, 7/2003 – 6/2008.

PROFESSIONAL ACTIVITIES

CONFERENCE/SYMPOSIUMS/WORKSHOPS PROGRAM COMMITTEE, REVIEWER, AND CHAIR
 ACMSE 2005, 2009, 2012; AoM/IAoM 1999; ASEA 2008; CATA 1999-2001; CCSC 2012-2014; CCSC 2006-2007, 2009; COMPSAR 2005-2006; CSIE 2009; DATA 2012-2013; DOCS

2000; EDOC 2004-2013; EISTA 2006; GETS 2005; HICSS 2004; IASTED 1998; IC-AI 1999; ICETI 2011; ICIQ 2011-2012; ICIS 2001-2002, 2005-2006, 2008, 2010-2012; ICISA 2010; ICSC 2007; ICTAI 2004; ICSoft 2009, 2011-2012; IDPT 2002; INTECH 2011; INTENSIVE 2009; IRI 2003, 2005-2012; ISADS 1995; ISAS 1998; ISM 2005-2006; ITCC 2005; ITiCSE 2005-2007, 2009; ITNG 2006-2007; IWCIS 2003; IWSH 2007; MSCCC 2004; NSSSE 2011; PDPTA 2004; PLAC 2007; SAC 2003-2008; SCC 2012; SCI 1999, 2001; SEA 1999-2000, 2004-2006; SEKE 2000; SERA 2003-2006, 2009, 2012; SERP 2004; SIGCSE 2003-2009, 2011, 2013; SMC 2003; SNPD 2001-2003, 2007-2009, 2012-2013; SoSE 2007; SPAC 2007; SSW 2007; UDME 2007

NATIONAL SCIENCE FOUNDATION (NSF) PANELIST

Member of Review Panel on Computer Science and Information (2007 – 2008)

BOARD MEMBER OF EDITORIAL ADVISORS

SENRA Canadian Journal of Pure and Applied Sciences (CJPAS), ACIS International Journal of Computer & Information Science (IJCIS), International Journal of Patterns (IJOP), SERSC International Journal of Software Engineering and Its Applications (IJSEIA), Software Engineering and Information Technology Institute (SEITI) at Central Michigan University, Journal of Cybernetics and Systems, The Open Software Engineering Journal

GRADUATE STUDENTS

Zhendong Chen (Graduated in Summer 2002 and Employed at Group Software 1, a Pitney Bowes Company in Washington D.C.), MS degree: *Interoperability Study between JavaBeans and CORBA*.

- Chia-Chu Chiang and Zhendong Chen, 'A CORBA Adapter to Promote Reusability of Java Components,' *Proceedings of the 3rd ACM International Symposium on Information and Communication Technologies (ACM ISICT 2004)*, June 16-18, 2004, Las Vegas: Nevada, USA, pp. 256-261.

Ryan Hayward (Current graduate student, targeted graduation date Spring 2013)

- Ryan Hayward and Chia-Chu Chiang, "Parallelizing Fully Homomorphic Encryption," *Proceedings of the 2014 International Symposium on Computer, Consumer and Control (IEEE IS3C 2014)*, June 10-12, 2014, Taichung, Taiwan.
- Ryan Hayward and Chia-Chu Chiang, 'Building a Cloud Computing System in OpenStack: An Experience Report,' *Proceedings of the International Conference on Applied and Theoretical Information Systems Research (ATISR 2013)*, November 22-24, 2013, Taipei, Taiwan. (IN CD)
- Ryan Hayward and Chia-Chu Chiang, 'An Architecture for Parallelizing Fully Homomorphic Cryptography on Cloud,' *Proceedings of the 7th International Conference on Complex, Intelligent, and Software Intensive Systems (CISIS 2013)*, July 3-5, 2013, Taichung, Taiwan, pp. 72-77.

Jingjiang He (Graduate Research Assistant 2004-2005, Project Sponsored by Syntel™ LLC.: *The Multi-Platform AutoMail System*).

- Brian Ray, Jingjiang He, Chia-Chu Chiang, and Jim Melescue, ‘The Print Scraping System,’ *Proceedings of the 43rd Annual ACM Southeast Conference (ACM ACMSE 2005)*, Volume 2, March 18-19, 2005, Kennesaw: Georgia, USA, pp. 235-236.

Hong Liu (Graduated in Spring 2003 and Employed at UALR in Little Rock, Arkansas), MS degree: *Prototype of a CORBA Adapter for Reusable Components in C++*.

Shen Lu (Graduated in Fall 2010)

- Shen Lu, MS thesis: *Theoretical Analysis and Algorithms Study on Association Rule Mining*, 2010.
- Chia-Chu and Shen Lu, ‘Distributed Association Mining on Message Passing Systems,’ *Proceedings of the 2010 IEEE International Symposium on Parallel and Distributed Processing with Applications (ISPA10)*, September 6-9, 2010, Taipei, Taiwan, pp. 208-214.

Shiva Charan Moola (Graduated in Spring 2011, employed at ACXIOM in Little Rock, Arkansas)

Hao Wu (Graduate Research Assistant, 2003-2004, Project Sponsored by Acxiom: *An Architecture for Capturing, Storing, and Connecting Event Information for Customer Data Integration*, Graduated in Spring 2010 and now Employed in Microsoft in Seattle, Washington).

- Hao Wu Hao Wu and Chia-Chu Chiang, ‘Implementing a Coordination Model for Parallelism on Heterogeneous Computers,’ *International Journal of Software Engineering and Its Applications*, April 2012.
- Hao Wu, MS thesis: *A Java Prototype Implementation of Coordination for Heterogeneous, Distributed, and Parallel Programming*, 2010.
- Charles Wesley Ford, Chia-Chu Chiang, Hao Wu, Radhika R. Chilka, and John Talburt, ‘Text Data Mining: A Case Study,’ *Proceedings of the IEEE International Conference on Information Technology Coding and Computing (IEEE ITCC 2005)*, Vol. 1, April 11-13, 2005, Las Vegas: Nevada, USA, pp. 122-127.
- Hao Wu and Chia-Chu Chiang, ‘A Network Teaching Tool for Visualizing and Analyzing Routing Protocols,’ *Journal of Integrated Design & Process Science: Transactions of the SDPS*, Vol. 8, No. 2, June 2004, pp. 29-36.
- Charles Wesley Ford, Chia-Chu Chiang, Hao Wu, Radhika R. Chilka, and John Talburt, ‘Confidence on Approximate Query in Large Datasets,’ *Proceedings of the IEEE International Conference on Information Technology Coding and Computing (IEEE ITCC 2004)*, April 5-7, 2004, Las Vegas: Nevada, USA, pp. 480-484.
- Hao Wu and Chia-Chu Chiang, ‘A Network Teaching Tool for Visualizing and Analyzing Routing Protocols,’ *Proceedings of the Seventh World Conference on Integrated Design & Process Technology (SDPS IDPT’03)*, December 3-5, 2003, Austin: Texas, USA.
- Hao Wu and Chia-Chu Chiang, ‘A Test Cases Generation Tool for Software Testing,’ *Proceedings of the 1st ACIS International Conference on Software Engineering Research &*

Applications (ACIS SERA '03), June 25-27, 2003, San Francisco: California, USA, pp. 70-75.

Yanbin Ye (Employed at US FDA, Arkansas).

- Yanbin Ye and Chia-Chu Chiang, 'A Parallel Apriori Algorithm for Frequent Itemsets Mining,' *Proceedings of the 4th ACIS/IEEE International Conference on Software Engineering Research, Management & Applications (ACIS/IEEE SERA 2006)*, August 9-11, 2006, Seattle: Washington, USA, pp. 87-93.

Jingsheng Zhang (Employed at AGL in Jacksonville, Arkansas).

UNDERGRADUATE STUDENTS

Wes Copeland (2011 Student Undergraduate Research Fellowship (SURF) Awardee, Project Sponsored by the Arkansas Department of Higher Education (AFHE): Managed Security on iPhones; 2012 SURF Undergraduate Research Awardee, Project Sponsored by AFHE): A Method for Fatal Assessment Using Data Mining and Machine Learning.)

- Wes Copeland won the 2nd place in CAHSS Undergraduate Research/Creative Activity Symposium, Tuesday, April 24, 2012.
- Wes Copeland and Chia-Chu Chiang, 'Securing Enterprise Mobile Information,' *Proceedings of the 2012 International Symposium on Computer, Consumer and Control (IEEE IS3C 2012)*, June 4-6, 2012, Taichung, Taiwan.
- Wes Copeland and Chia-Chu Chiang, 'A Managed Security Environment for Enterprise iPhones,' *Proceedings of the 50th Annual ACM Southeast Conference (ACM ACMSE 2012)*, March 29-31, 2012, Tuscaloosa: Alabama, USA, pp. 136-141.
- Wes Copeland and Chia-Chu Chiang, 'A Managed Security Environment for Enterprise iPhones' *Proceedings of the 2012 International Conference on Applied and Theoretical Information Systems Research (ATISR 2012)*, February 10-12, 2012, Taipei, Taiwan. (IN CD)

Keenan Gillispie (Spring 2012, President of UALR ACM Student Chapter, Leader of UALR Computer Science programming contest teams), A Ph.D. student at UALR now.

- A UALR's Computer Science team won the 1st place among Arkansas institutions in the ACM Mid-Central USA programming contest in 2011.
- A UALR's Computer Science team won the 2nd place among Arkansas institutions in the ACM Mid-Central USA programming contest in 2010.

Michael Jolley (Fall 2011, Student working with me for his own research projects)

- Michael Jolley won the Google Lime Scholarship for \$10,000 in 2010. The Lime Scholarship is awarded to disabled students who have dedicated themselves to computer science research.

Nicholas Pippenger (Undergraduate Research Assistant, 2006-2007, Project Sponsored by NSF: *Methods and Techniques for Entity Identification in Open Source Documents with Partially Redacted Attributes.*)

- Ningning Wu, John Talburt, Chris Heien, Nick Pippenger, Chia-Chu Chiang, Elizabeth Pierce, Ebony Gulley, JaMia Moore, ‘A Method for Entity Identification in Open Source Documents with Partially Redacted Attributes,’ *Proceedings of Fifth Annual Mid-South College Computing Conference (MSCCC 2007)*, March 30-31, 2007, Monroe: Louisiana, USA, pp. 138-144.

Benjamin Balogh, Matthew Reed, David Miller (Students in the CPSC 4373: Software Engineering class, Spring 2006)

- Matthew Reed, Benjamin Balogh, David Miller, and Chia-Chu Chiang, ‘Learning Web Service Engineering in a Simulated Business Environment,’ *Proceedings of the 38th ACM Technical Symposium on Computer Science Education (ACM SIGCSE 2007)*, March 7-10, 2007, Covington: Kentucky, USA. (SUBMITTED)
- Benjamin Balogh, Matthew Reed, David Miller, and Chia-Chu Chiang, ‘Web Enabled Service Implementation – Telephone Directory Prototype,’ *Proceedings of the 2006 IEEE International Conference on Information Reuse and Integration (IEEE IRI 2006)*, September 16-18, 2006, Waikoloa: Hawaii, USA, pp. 385-388.

Brian Ray (Undergraduate Research Assistant, 2004-2005, Project Sponsored by Syntel™ LLC.: *The Multi-Platform AutoMail System*, Graduated in Summer 2005).

- Brian Ray, Chia-Chu Chiang, and Jim Melescue, ‘Text Extraction on Windows-Based Documents,’ *Proceedings of the Eighteenth International Conference on Systems Engineering (IEEE ICSEng 2005)*, August 16-18, 2005, Las Vegas: Nevada, USA, pp. 205-210.
- Brian Ray, Chia-Chu Chiang, and Jim Melescue, ‘Retrieving and Modifying Documents in the Microsoft Windows® Printing System,’ *Proceedings of The Second Global Educational Technology Symposium (GETS 2005)*, May 4-6, 2005, University of Arkansas at Little Rock, Little Rock: Arkansas, USA.
- Brian Ray and Chia-Chu Chiang, ‘Retrieving and Modifying Documents in the Microsoft Windows® Printing System,’ *Proceedings of the 2005 Arkansas Undergraduate Research Conference (AURC 2005)*, April 22-23, 2005, Henderson State University, Arkadelphia: Arkansas, USA, pp. 56.
- Brian Ray, Jingjiang He, Chia-Chu Chiang, and Jim Melescue, ‘The Print Scraping System,’ *Proceedings of the 43rd Annual ACM Southeast Conference (ACM ACMSE 2005)*, Volume 2, March 18-19, 2005, Kennesaw: Georgia, USA, pp. 235-236.
- Brian Ray, UALR Cyber College Undergraduate Research Awards, Project Title: ‘Restructuring HP PCL to Aid Text Extraction.’

COURSES TAUGHT

CPSC 1375: Programming I
 CPSC 2276: Programming II
 CPSC 2380: Data Structures and Algorithms
 CPSC 2382: Computer Systems and Assembly Language
 CPSC 3371: Net-Centric Computing: Language Concepts

CPSC 3375: Database Concepts I
CPSC 3383: Language Structure
CPSC 4300: Independent Study: The Cultural Aspects of Software Development in Japan
CPSC 4370: Theory of Computation
CPSC 4373: Fundamentals of Software Engineering
CPSC 4384: Computer Networks
CPSC 4392: Capstone Project
CPSC 4392: Independent Study: Parallel Programming Languages

CPSC 7100: Independent Study
CPSC 7190: Graduate Seminar
CPSC 7300: Independent Study
CPSC 7311: Software Engineering
CPSC 7341: Telecommunications and Networking
CPSC 7398: Graduate Project
CPSC 8600: Master's Thesis