

Paul D. Wiedemeier

The University of Louisiana at Monroe
Computer Science and Computer Information Systems
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Education

- Ph D, University of Missouri - Columbia, 2005.
Major: Computer Engineering and Computer Science
Dissertation Title: Transport, Network, and Data-Link Layer Protocol Designs to Improve Geo-Stationary Earth Orbit Satellite Data Set Transmission Performance
- MS, Michigan Technological University, 1992.
Major: Computer Science
Dissertation Title: A Space Efficient Parallel Sequence Database Comparison Method
- BS, Drake University, 1990.
Major: Computer Science

Professional Positions

Academic

- Assistant Professor of Computer Science, The University of Louisiana at Monroe. (August 2005 - Present).
- Assistant Professor of Computer Science, Columbia College of Missouri. (August 1999 - May 2005).
- Instructor, University of Missouri - Columbia. (June 1998 - July 1998).
- Instructor, University of Missouri - Columbia. (August 1995 - May 1997).
- Graduate Research Assistant, Missouri Research and Education Network (MOREnet). (August 1992 - June 1993).
- Graduate Research Assistant, Michigan Technological University. (May 1992 - August 1992).
- Graduate Teaching Assistant, Michigan Technological University. (August 1990 - May 1992).

Professional

- Senior Computer Programmer/Analyst, University of Missouri - Columbia. (June 1995 - August 1999).
- Computer Programmer/Analyst II, Missouri Research and Education Network (MOREnet). (June 1993 - June 1995).
- Programmer, International Business Machines (IBM) Corporation. (June 1991 - August 1991).
- Programmer, International Business Machines (IBM) Corporation. (January 1990 - August 1990).
- Computer Specialist, United States Veterans Administration Medical Center. (June 1988 - December 1989).

Licensures and Certifications

Amateur Radio Operator Technician Class License (KE5LKY), United States Federal Communications Commission. (November 11, 2006 - November 16, 2016).

Professional Memberships

National, Amateur Radio Relay League. (2006 - Present).

International, Institute of Electrical and Electronics Engineers, Inc.. (2006 - Present).

State, Louisiana Academy of Sciences. (2006 - Present).

National, Tucson Amateur Packet Radio Corporation. (2006 - Present).

National, The Consortium for Computing Sciences in Colleges. (2000 - Present).

International, Association for Computing Machinery. (1988 - Present).

Development Activities Attended

Attended Conference, "26th Annual ARRL and TAPR Digital Communications Conference," Amateur Radio Relay League and the Tucson Amateur Packet Radio Corporation, Hartford, Connecticut. (September 28, 2007 - September 30, 2007).

Seminar, "Training Seminar on State Travel," The University of Louisiana at Monroe, Monroe, Louisiana. (August 17, 2007).

Seminar, "FERPA Update," The University of Louisiana at Monroe, Monroe, Louisiana. (August 15, 2007).

Attended Conference, "5th Annual Consortium for Computing Sciences in Colleges MidSouth Conference," Consortium for Computing Sciences in Colleges - MidSouth Region, Monroe, Louisiana. (March 30, 2007 - March 31, 2007).

Attended Conference, "2007 IEEE Aerospace Conference," Institute of Electrical and Electronics Engineers (IEEE), Big Sky, Montana. (March 6, 2007 - March 9, 2007).

Seminar, "Podcasting 101," The University of Louisiana at Monroe, Monroe, Louisiana. (January 10, 2007).

Attended Conference, "2006 Louisiana State Amateur Radio Convention and Monroe Regional Hamfest," Amateur Radio Relay League, Monroe, Louisiana. (November 11, 2006).

Tutorial, "Assessment and Training for Microsoft Office and Computer Concepts," Prentice Hall, Monroe, Louisiana. (August 17, 2006).

Seminar, "Advising and General Policies in the College of Business Administration," The University of Louisiana at Monroe, Monroe, Louisiana. (August 16, 2006).

Seminar, "BOR Grant Writing Success Stories," The University of Louisiana at Monroe, Monroe, Louisiana. (August 16, 2006).

Attended Conference, "4th Annual Consortium for Computing Sciences in Colleges MidSouth Conference," Consortium for Computing Sciences in Colleges - MidSouth Region, Memphis, Tennessee. (March 31, 2006 - April 1, 2006).

Attended Conference, "37th Technical Symposium on Computer Science Education," Association for Computing Machinery Special Interest Group on Computer Science Education, Houston, Texas. (March 1, 2006 - March 5, 2006).

Seminar, "Research Over the Year," The University of Louisiana at Monroe, Monroe, Louisiana. (September 16, 2005).

Seminar, "New Faculty Orientation," The University of Louisiana at Monroe, Monroe, Louisiana. (August 18, 2005).

Seminar, "Advising and General Policies in the College of Business Administration," The University of Louisiana at Monroe, Monroe, Louisiana. (August 17, 2005).

Attended Conference, "11th Annual Consortium for Computing Sciences in Colleges Central Plains Conference," Consortium for Computing Sciences in Colleges - Central Plains Region, Topeka, Kansas. (April 1, 2005 - April 2, 2005).

Attended Conference, "5th IEEE Core Technologies for Space Systems Conference - Space Technologies for Defense and Exploration," Institute of Electrical and Electronics Engineers (IEEE), Colorado Springs, Colorado. (November 8, 2004 - November 10, 2004).

Attended Conference, "4th NASA Space Internet Workshop," National Aeronautics and Space Administration, Hanover, Maryland. (June 8, 2004 - June 10, 2004).

Attended Conference, "10th Annual Consortium for Computing Sciences in Colleges Central Plains Conference," Consortium for Computing Sciences in Colleges - Central Plains Region, Warrensburg, Missouri. (April 2, 2004 - April 3, 2004).

Attended Conference, "2004 IEEE Aerospace Conference," Institute of Electrical and Electronics Engineers (IEEE), Big Sky, Montana. (March 6, 2004 - March 13, 2004).

Attended Conference, "9th Annual Consortium for Computing Sciences in Colleges Central Plains Conference," Consortium for Computing Sciences in Colleges - Central Plains Region, Emporia, Kansas. (April 24, 2003 - April 25, 2003).

Attended Conference, "8th Annual Consortium for Computing Sciences in Colleges Central Plains Conference," Consortium for Computing Sciences in Colleges - Central Plains Region, Kansas City, Kansas. (April 5, 2002 - April 6, 2002).

Attended Conference, "7th Annual Consortium for Computing Sciences in Colleges Central Plains Conference," Consortium for Computing Sciences in Colleges - Central Plains Region, Point Lookout, Missouri. (April 6, 2001 - April 7, 2001).

Attended Conference, "6th Annual Consortium for Computing Sciences in Colleges Central Plains Conference," Consortium for Computing Sciences in Colleges - Central Plains Region, Lee's Summit, Missouri. (April 7, 2000 - April 8, 2000).

TEACHING

RESEARCH

Published Intellectual Contributions

Book Chapters

Tyrer, H. W., Wiedemeier, P. (2006). *Annual Review of Communications* (vol. 58, pp. 730). Chicago, Illinois: International Engineering Consortium.

Tyrer, H. W., Wiedemeier, P. (2006). *Annual Review of Wireless Communications* (pp. 147). Chicago, Illinois: International Engineering Consortium.

Refereed Journal Articles

Wiedemeier, P., Cordova, J., Smith, L., Taylor, K. (2007). An Evaluation of the Efficacy of Seminars in Retaining and Recruiting Computer Science Majors. *The Journal of Computing Sciences in Colleges*, 22(5), 78-86.

Wiedemeier, P. (2002). Preventing Plagiarism in Computer Literacy Courses. *The Journal of Computing in Small Colleges*, 17(4), 154-193.

Conference Proceedings

Wiedemeier, P. *Transmitting Medical Images over 2-Meter Amateur Packet Radio Networks using TCP Reno and UDP*. Manhattan Beach, California: Proceedings of the 2008 IEEE Aerospace Conference.

Wiedemeier, P. (2007). *Performance Modeling of TCP and UDP over Packet Radio Networks using the ns-2 Network Simulator* (pp. 141-154). Newington, Connecticut: Proceedings of the 26th ARRL and TAPR Digital Communications Conference.

Wiedemeier, P., Tyrer, H. W. (2007). *Improved Near-Earth Internet Data Transmission Using New Multi-Layer OSI Protocol Designs*. Manhattan Beach, California: Proceedings of the 2007 IEEE Aerospace Conference.

Wiedemeier, P., Tyrer, H. W. (2004). *Multiple Segment Transmission with Majority Decoding Transport Layer Protocol for Geo-Stationary Earth Orbit Satellites*. Manhattan Beach, California: Proceedings of the 2004 IEEE Aerospace Conference.

Wiedemeier, P., Tyrer, H. W. (2003). *Large File Transmissions over High Bandwidth High Delay Communication Channels using TCP*. Manhattan Beach, California: Proceedings of the 2003 IEEE Aerospace Conference.

Tyrer, H. W., Wiedemeier, P., Cattlet, R. W. (2001). *Rural Telemedicine: Satellites and Fiber Optics* (vol. 37, pp. 417-422). Research Triangle Park, North Carolina: Proceedings of the 38th Annual Rocky Mountain Bioengineering Symposium, Biomedical Sciences Instrumentation, Instrument Society of America.

Presentations Given

Wiedemeier, P., ULM Computer Science Seminar, "Introduction to the Computer Science ACE Laboratory and Basic UNIX Commands," ULM Computer Science and CIS Department, Monroe, Louisiana. (November 26, 2007).

Wiedemeier, P., Proceedings of the 26th ARRL and TAPR Digital Communications Conference, "Performance Modeling of TCP and UDP over Packet Radio Networks using the ns-2 Network Simulator," Amateur Radio Relay League and Tucson Amateur Packet Radio Corporation, Hartford, Connecticut. (September 28, 2007).

- Wiedemeier, P. (Presenter & Author), Cordova, J. (Presenter Only), Smith, L. (Presenter Only), Taylor, K. (Presenter Only), 5th Annual Consortium for Computing Sciences in Colleges Mid-South Conference, "An Evaluation of the Efficacy of Seminars in Retaining and Recruiting Computer Science Majors," Consortium for Computing Sciences in Colleges, Monroe, Louisiana. (March 30, 2007).
- Wiedemeier, P. (Presenter & Author), Cordova, J. (Presenter Only), Sherrell, L. B. (Presenter Only), Wilkins, D. (Presenter Only), 5th Annual Consortium for Computing Sciences in Colleges Mid-South Conference, "How are your Enrollments?," Consortium for Computing Sciences in Colleges, Monroe, Louisiana. (March 30, 2007).
- Wiedemeier, P. (Presenter & Author), 2007 IEEE Aerospace Conference, "Improved Near-Earth Internet Data Transmission Using New Multi-Layer OSI Protocol Designs," Institute of Electrical and Electronics Engineers, Inc., Big Sky, Montana. (March 8, 2007).
- Wiedemeier, P. (Presenter & Author), 5th IEEE Core Technologies for Space Systems Conference - Space Technologies for Defense and Exploration, "Transport, Network, and Data-Link Layer Protocol Design Specifications that improve Near-Earth Data Communication Performance," Institute of Electrical and Electronics Engineers, Colorado Springs, Colorado. (November 8, 2004).
- Wiedemeier, P. (Presenter & Author), 4th NASA Space Internet Workshop, "MST/MD: A Transport Layer Protocol that improves Large Data Set Transmission over Geo-Stationary Earth Orbit Satellites," National Aeronautics and Space Administration, Hanover, Maryland. (June 8, 2004).
- Wiedemeier, P. (Presenter & Author), 2004 IEEE Aerospace Conference, "A Multiple Segment Transmission with Majority Decoding Transport Layer Protocol for Geo-Stationary Earth Orbit Satellites," Institute of Electrical and Electronics Engineers, Inc., Big Sky, Montana. (March 7, 2004).
- Wiedemeier, P. (Presenter & Author), 8th Annual Consortium for Computing in Small Colleges Central Plains Conference, "Preventing Plagiarism in Computer Literacy Courses," Consortium for Computing in Small Colleges, Kansas City, Kansas. (April 5, 2002).

Contracts, Grants and Sponsored Research

Other

- Wiedemeier, Paul D. (Principal), "Digital Logic Software and Hardware for the Enhancement of Computer Organization and Architecture Education at ULM" (Funded), Sponsored by ULM Computer Science Department, The University of Louisiana at Monroe, \$3341.25. (October 2006 - March 2007).
- Wiedemeier, Paul D. (Supporting), Pheatt, Charles B. (Principal), Ballester, Jorge Luis (Co-Principal), Yang, Yixin (Eric) (Co-Principal), Thompson, Kenneth Wayne (Supporting), Chiang, Chia-Chu (Supporting), Gudivada, Venkat N. (Supporting), "Easy Distributed Computing (DCEZ)" (Not Funded), Sponsored by Emporia State University, External to The University of Louisiana at Monroe, \$149938. (May 9, 2006 - November 19, 2006).
- Wiedemeier, Paul D. (Principal), "A Wireless Laptop Sandbox" (Funded), Sponsored by ULM Computer Science Department, The University of Louisiana at Monroe, \$14795.16. (October 2005 - March 2006).

Awards and Honors

Clarke M. Williams, Jr. Endowed Professorship in Computer Science, The University of Louisiana at Monroe. (July 2006).

SERVICE

Editorial and Review Activities

Ad Hoc Reviewer, Review Journal Article, "Proceedings of the 39th Annual SIGCSE Technical Symposium on Computer Science Education", Association for Computing Machinery. (September 10, 2007 - October 1, 2007).

Ad Hoc Reviewer, Review Journal Article, "Proceedings of the 12th Annual Conference on Innovation and Technology in Computer Science Education", Association for Computing Machinery. (January 18, 2007 - February 14, 2007).

Ad Hoc Reviewer, Review Journal Article, "The Journal of Computing Sciences in Colleges, MidSouth Region, 2007", The Consortium for Computing Sciences in Colleges. (December 2006).

Ad Hoc Reviewer, Review Journal Article, "The Journal of Computing Sciences in Colleges, Central Plains Region, 2007", The Consortium for Computing Sciences in Colleges. (December 6, 2006 - December 22, 2006).

Ad Hoc Reviewer, Review Journal Article, "Proceedings of the 38th Annual SIGCSE Technical Symposium on Computer Science Education", Association for Computing Machinery. (October 6, 2006).

Ad Hoc Reviewer, Review Journal Article, "Proceedings of the 11th Annual Conference on Innovation and Technology in Computer Science Education", Association for Computing Machinery. (January 30, 2006 - February 14, 2006).

Ad Hoc Reviewer, Review Journal Article, "The Journal of Computing Sciences in Colleges, MidSouth Region, 2006", The Consortium for Computing Sciences in Colleges. (August 2005 - December 2005).

Ad Hoc Reviewer, Review Journal Article, "The Journal of Computing Sciences in Colleges, Central Plains Region, 2006", The Consortium for Computing Sciences in Colleges. (December 8, 2005 - December 28, 2005).

Ad Hoc Reviewer, Review Journal Article, "Proceedings of the 37th Annual SIGCSE Technical Symposium on Computer Science Education", Association for Computing Machinery. (October 7, 2005).

Internal Service

College

Committee Member, College of Business Administration Scholarship Committee, Member. (August 2007 - Present).

Committee Member, College of Business Administration Recruitment Committee, Member. (August 2005 - May 2007).

Department

Committee Member, Computer Science Assessment Committee, Member. (August 2005 - Present).

Committee Member, Computer Science Curriculum Committee, Member. (August 2005 - Present).

Faculty Co-Coordinator, Computer Science Seminar. (March 21, 2007).

Department Representative, Browse The Bayou. (March 17, 2007).

Faculty Co-Coordinator, Computer Science Seminar. (November 20, 2006).

Department Representative, 2006 Northeast Louisiana College and Career Fair. (October 30, 2006 - November 1, 2006).

Faculty Co-Coordinator, 2006 Computer Science Student Programming Contest. (September 29, 2006).

Faculty Co-Coordinator, Computer Science Seminar. (September 13, 2006).

Computer Science Programming Team 2006 CCSC MidSouth Conference Sponsor, Computer Science Student Programming Team Sponsor. (March 31, 2006 - April 1, 2006).

Department Representative, Browse The Bayou. (March 11, 2006).

Author, Updated/Rewrote CSCI 253 Master Syllabus. (August 2005 - December 2005).

Faculty Co-Coordinator, 2005 Computer Science Student Programming Contest. (October 14, 2005).

Department Representative, Browse The Bayou. (October 5, 2005).

University

Committee Member, Electronic Learning Committee, Member. (August 2006 - Present).

External Service

Professional

Membership/Registration Chair, Consortium for Computing Sciences in Colleges Mid-South Region. (March 31, 2007 - Present).

Conference Publicity Chair, 5th Annual Consortium for Computing Sciences in Colleges Mid-South Conference. (August 2006 - March 2007).

Conference Chair, 5th Annual Consortium for Computing Sciences in Colleges Mid-South Conference. (January 2006 - March 2007).

Conference Paper Co-Chair, 4th Annual Consortium for Computing Sciences in Colleges Mid-South Conference. (August 2005 - April 2006).

Conference Session Moderator, 4th Annual Consortium for Computing Sciences in Colleges Mid-South Conference. (March 31, 2006 - April 1, 2006).

Public/Community

Judge, 2007 Louisiana Region 3 Science and Engineering Fair. (March 27, 2007).

Internet Scavenger Hunt Co-Coordinator, 2006 Computer Science Investigation @ ULM. (April 7, 2006).

Judge, 2006 Louisiana Region 3 Science and Engineering Fair. (March 30, 2006).