

Dean Hendrix

Associate Professor

Computer Science and Software Engineering

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EDUCATION

- PhD 1996 Computer Science and Engineering, Auburn University
- MS 1989 Computer Science, Georgia Institute of Technology
- BS 1988 Mathematics and Computer Science, Jacksonville State University

EXPERIENCE AND EMPLOYMENT RECORD

- 2001-present: Associate Professor with Tenure, Computer Science and Software Engineering, Auburn University
- 1996-2001: Assistant Professor, Computer Science and Software Engineering, Auburn University
- 1992-1996: Graduate Assistant, Computer Science and Engineering, Auburn University
- 1989-1996: Instructor, Mathematical, Computing, and Information Science, Jacksonville State University

PROFESSIONAL INVOLVEMENT

- Member, Institute of Electrical and Electronics Engineers (IEEE), IEEE Computer Society, Association for Computing Machinery (ACM), American Society for Engineering Education (ASEE)
- Program Evaluator, Accreditation Board for Engineering and Technology (ABET), Computing Accreditation Commission (CAC)
- Reviewer, National Science Foundation Directorate for Computer and Information Sciences and Engineering
- Referee, *Journal of Information and Software Technology*, *Software Practice and Experience*
- Reviewer, international and national conferences

HONORS AND AWARDS

- Nominated for William F. Walker Teaching Award in the College of Engineering by the Department of Computer Science and Software Engineering, 2001.
- Outstanding Engineering Faculty Member, Computer Science and Software Engineering, Auburn University, 1999, 2000, and 2001.
- Upsilon Pi Epsilon, Honor Society for the Computing Sciences, 2000.

RESEARCH INTERESTS AND SUMMARY

- **Software Visualization.** Software visualization investigates efficient and effective ways of automatically producing graphical representations of program source code, algorithms, or the runtime behavior of software. Such visualization technology promises to have a positive impact on difficult and costly issues in software

engineering such as communicating program information for the purposes of testing, maintenance, and reverse engineering, especially for large, complex systems.

- **Software Process.** The efficacy with which challenges to many software engineering projects can be met and overcome is largely dependent on the underlying process by which the software is developed. Many modern software systems require innovative and agile processes to successfully develop complex, distributed, and largely autonomous software components.

EDUCATION INTERESTS AND SUMMARY

- Software engineering
- Object-oriented design and programming
- Database systems

TEN RECENT REPRESENTATIVE PUBLICATIONS (a total of 33 papers in refereed journals and conference proceedings)

- B. Kim, T. D. Hendrix, J. E. Cochran, K. H. Chang and J. H. Jo, "GITCS: A Location-Aware Application Based on Wireless LAN", Proceedings of the 41st ACM Southeast Regional Conference, March 7-8, 2003, Savannah, GA.
- D. A. Umphress, T. D. Hendrix, and J. H. Cross, "Software Process in the Classroom: The Capstone Project Experience", IEEE Software, Vol. 19 No. 5 (2002), pp. 78-85.
- T. D. Hendrix, J. H. Cross, and S. Maghsoodloo, "The Effectiveness of Control Structure Diagrams in Source Code Comprehension Activities", IEEE Transactions on Software Engineering, Vol. 28 No. 5 (2002), pp. 1-15.
- T. D. Hendrix and M. P. Schneider, "A Case Study in Using the Spiral Model of Software Development", Communications of the ACM, Vol. 45 No. 4ve (2002), pp.152-159.
- J. H. Cross, T. D. Hendrix, and L. A. Barowski, "Using UML Class Dependency Diagrams in CS1", Proceedings of the 40th Annual Southeast ACM Conference, April 26-27, 2002, Raleigh, NC.
- J. H. Cross, T. D. Hendrix, and L. A. Barowski, "Using the Debugger as an Integral Part of Teaching CS 1", Proceedings of Frontiers in Education 2002, November 6-9, 2002, Boston, MA.
- Y. Lee, K.H. Chang, D.A. Umphress, T.D. Hendrix, and J.H. Cross, "Automated Tool for Software Quality Measurement", Proceedings of the Thirteenth International Conference on Software Engineering and Knowledge Engineering, June 13-15, 2001, Buenos Aires, Argentina.
- T. D. Hendrix and J. H. Cross, "Graphics and Animation for Software Visualization", National Forum, Vol. 78 No. 4 (1998), pp. 22-25.
- J. H. Cross, S. Maghsoodloo, and T. D. Hendrix, "The Control Structure Diagram: An Overview and Initial Evaluation", Empirical Software Engineering, Vol. 3 No. 2 (1998), pp. 131-158.
- J. H. Cross, K. H. Chang, T. D. Hendrix, R. O. Chapman, and P. A. McQuaid, "Visualization and Measurement of Source Code", CrossTalk Journal of Defense Software Engineering, Vol. 10 No. 12 (1997), pp. 16-19.