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Education:

MBA Management, Wright State University, 1979.

PhD Electrical Engineering, The Ohio State University, 1973.

MS Electrical Engineering, The Ohio State University, 1969.

BEE Electrical Engineering, The Ohio State University, 1969.

Experience:

2000 - now Research Assistant Professor, CSE, Wright State University.

1987 – 2000 Associate Professor, ECS, Air Force Institute of Technology.

1977 – 1987 Assistant Professor, ECS, Air Force Institute of Technology.

1975 – 1977 Project Engineer, Aerospace Medical Rsch Lab, Wright-Patterson AFB, OH.

1971 – 1975 Project Engineer, U.S. Army Electronics Command, Ft. Monmouth, NJ.

Awards and Distinctions:

2004 National Research Council /Air Force Office of Scientific Research Summer Faculty Fellowship.

2003 National Research Council /Air Force Office of Scientific Research Summer Faculty Fellowship.

2000 The Outstanding Civilian Career Service Award, Air Force Institute of Technology.

2000 Associate Professor Emeritus, Air Force Institute of Technology.

1994 Department nominee for Ezra Kotcher Award, Air Force Institute of Technology.

1990 Department nominee for Ezra Kotcher Award, Air Force Institute of Technology.

1987 1st Runner-up for Best Paper, national Aerospace & Elec. Conference, Dayton, OH.

Sponsored Research Projects:

2004 Air Force Research Laboratory, “The Extended Development of JBI Publishing for Embedded Assets,” \$10,910.

Professional Activities:

Member, Institute of Electrical and Electronic Engineers (IEEE).

Sample Publications:

D. W. Marsh and T. C. Hartrum, "Automated Synthesis of Distributed Agents Using Transformations of Formal Specifications," Proceedings of the 13th Midwest Artificial Intelligence and Cognitive Science Conference (MAICS 2002), Chicago, IL Apr 2002.

T. C. Hartrum and J. C. Nonnweiler, "Software System Integration Methodology using Formal Specifications," Proceedings of the 44th IEEE 2001 Midwest Symposium on Circuits and Systems (MWSCAS 2001), Dayton, OH Aug 14-17, 2001.

T. C. Hartrum and R. P. Graham, Jr., "The AFIT Wide Spectrum Object Modeling Environment: an AWSOME Beginning," Proceedings of the IEEE 2000 National Aerospace & Electronics Conference (NAECON 2000), Dayton, OH, Oct. 2000.

P. A. Noe and T. C. Hartrum, "Extending the Notation of Rational Rose 98 for use with Formal Methods," Proceedings of the IEEE 2000 National Aerospace & Electronics Conference (NAECON 2000), Dayton, OH, Oct. 2000.

S. DeLoach and T. Hartrum, "A Theory-Based Representation for Object-Oriented Domain Models," IEEE Trans. in Software Engineering, TSE Vol. 26, No. 6, June 2000.

T. C. Hartrum and S. A. DeLoach, "A Design Issues for Mixed-Initiative Agent Systems," Mixed-Initiative Intelligence Workshop, 16th Nat'l. Conf. On Artificial Intelligence (AAAI-99), Orlando, FL, July 1999.

R. C. Shock and T. C. Hartrum, "A Classification Scheme for Software Modules," The Journal of Systems and Software, (42) 1998.

R. E. Sward and T. C. Hartrum, "Extracting Objects from Legacy Imperative Code," Proc. 12th IEEE Int'l. Conf. On Automated Software Engineering, Incline Village, NV, Nov. 1997.

T. C. Hartrum and T. Karagias, "Generation of Object-Oriented Formal Software Specifications," Proc. of IEEE 1997 Nat'l. Aerospace and Electronics Conf. (NAECON 1997), Dayton, OH, July 1997.

V. S. Hibdon and T. C. Hartrum, "An Air Force Organization Process Model Using Formal Software Engineering Techniques," Proc. of IEEE 1996 National Aerospace and Electronics Conference (NAECON 1996), Vol. 2, Dayton, OH, May 1996.

S. DeLoach, P. Bailor, T. Hartrum, "Representing Object Models as Theories," Proc. of 10th Knowledge-Based Software Engineering Conf (KBSE-95), Boston, MA, Nov. 1995.

P. D. Bailor, T. C. Hartrum, D. R. Luginbuhl, M. A. Roth, "Integrated Technology for the Development of Software Composition Systems," Software Systems in Engineering 1995, PD-Vol. 67, The American Society of Mechanical Engineers, Feb 1995.