

Ernest Henry Page, Jr.

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Personal Data:

EDUCATION:

Ph.D., Computer Science, Virginia Polytechnic Institute and State University, 1994.
M.S., Computer Science, Virginia Polytechnic Institute and State University, 1990.
B.S., Computer Science, Virginia Polytechnic Institute and State University, 1988.

FIELDS OF INTEREST:

Discrete event simulation, parallel and distributed systems.

CLEARANCES:

Secret (Issued Nov. 2001)

Employment History:

MITRE	(1/04 - Present)
Abstraction and Associates, LLC, President	(9/01 - 1/04)
MITRE	(2/95 - 9/01)
Northern VA Community College, Adjunct faculty	(1/00 - 5/00)
Radford University, Instructor	(1/93 - 6/93)
Virginia Tech Systems Research Center, Research Associate	(8/93 - 11/94)
Southwest VA Governor's School, Instructor/Consultant,	(1/92 - 6/92)

Employment Highlights:

Senior Principal Staff, MITRE, March 2007 – present

Principal Investigator for High Throughput Computing Clouds to Support Simulation as a Service: a Case Study Using OneSAF. Leading 1.5SY effort funded through the MITRE Innovation Program (MIP) under the Army MOIE contract. The objectives of the research are to examine how mobility of SAF components within a cloud computing architecture can be facilitated, and measure how this mobility affects the degree of user interactivity supported in the cloud. 10/08 – present.

Investigator for Mobile Network Modeling Institute (MNMI). Providing support to Army research Lab (ARL). Developing High Performance Computing (HPC) simulation framework to support representation of million-node mobile ad hoc wireless networks. 7/09 – present.

Technology Integrator for E520. Provided organization and management of division participation in MITRE Innovation Program (MIP), and division capability development projects. 3/07 – 9/09.

Software Architect for DISA CombatCloud. Supported DISA CTO. Developed design principles, software architecture, and prototype of a cloud computing environment for the GIG. 10/07 – 9/08.

Consultant for SBInet Modeling and Analysis. Supported PM SBInet. Provided review and oversight for contactor modeling and analysis activities. 10/07 – 7/09.

Consultant for JFCOM Flagship Study. Supported U.S. Joint Forces Command. Provided input to Flagship Study on DoD enterprise strategy for modeling and simulation. 6/08 – 9/08.

Principal Staff, MITRE, January 2004 – March 2007

Technology Integrator for W800/E520. Provided organization and management of division participation in MITRE Technology Program (MTP), and division capability development projects. 7/04 – 3/07.

Software Architect for the National Communications System Pandemic Influenza Study. Led the design and development of a federation of models to study the impact of pandemic flu on national telecommunications networks in the presence of widespread telecommuting. 12/05 – 9/07. Project received MITRE Directors Award, 10/07.

Software Architect for the Border Patrol Three-Tier Model and Study. Designed architecture for diverse applications of Border Patrol modeling and simulation based on OneSAF product line architecture concepts. Led design and development of a federation of MANA simulations to study technology, tactical infrastructure and agent trades at a Sector scale. 10/04 – 7/05.

Investigator for the Java Meets Simulation MSR. Supported development of Tortuga simulation framework (available on tortuga.mitre.org). Developed performance benchmarks for Tortuga, and implemented O(1) priority queues. 1/04 – 9/04.

President, Abstraction and Associates, September 2001 – January 2004

Lead Scientist for the U.S. Army RDECOM MATREX. Supported the Chief Architect in the development of the MATREX architecture. Led performance studies of major architecture components. 1/03 – 1/04.

Technical Advisor to the U.S. Army Model and Simulation Office (AMSO). Provided technical guidance to the Director, AMSO, with respect to the development of Army model management policies and programs. Current duties include: programmatic support to major Army simulation systems, including WARSIM, OneSAF, Joint Virtual Battlespace and the RDEC federation; defining the systems architecture concepts for the Simulation and Modeling for Acquisition, Requirements and Training (SMART) initiative; leading efforts to formulate and document Grand Challenges for M&S; and supporting efforts to document M&S best practices. 9/01 – 1/04.

Lead Staff, MITRE, March 1997 – September 2001

Investigator for HLA Runtime Infrastructure Project. Funded through the Defense Modeling and Simulation Office (DMSO), the RTI Verifier project developed an environment to provide automated assistance in the verification of runtime infrastructures for the High Level Architecture (HLA) and used the environment to conduct verification studies for several commercially and government funded HLA runtime infrastructures. 9/99 – 9/01.

Principal Investigator for research project in composable systems theory. Funded under the DARPA Advanced Simulation Technology Thrust (ASTT), the objectives of Theory and Practice in User-Composable Simulation Systems, involved identifying fundamental aspects and limitations of composability as a system objective. Tasks included: an evaluation of composability with respect to computability theory, notations for the specification and analysis of composable systems, and the correlation of composability to other system objectives. 10/98 - 9/99.

Investigator on OneSAF architecture specification and analysis effort. Funded through the U.S. Army Simulation, Training and Instrumentation Command (STRICOM), the objectives of this effort were to specify and evaluate a software architecture for the next-generation Army semi-automated forces simulation, OneSAF. Tasks involved: (1) distillation and deconfliction of system requirements, (2) system specification and analysis through IDEF modeling, architecture description languages, and real-time temporal logics, and (3) prototyping and experimentation involving critical system functions, e.g. simulation executive, behavior architecture, etc. MITRE's role also involved coordination of related OneSAF research and development being undertaken at SAIC, Lockheed Martin and within the Defence Evaluation and Research Agency (DERA) in the UK. 1/98 - 9/99.

Principal Investigator for research project in web-Based simulation. Led a MITRE Sponsored Research (MSR) effort entitled Web-Based Simulation Support. This two-year effort involved the examination of web-based technologies as distributed simulation infrastructure and evaluation of the modeling methodological impacts of web-based and web-enabled simulations. Accomplishments of the research include: initiation of the development of a Java-based High Level Architecture (HLA) runtime infrastructure, the establishment of a special interest group in distributed simulation within the Object Management Group (OMG), the development of a distributed version of the Simjava simulation language using Remote Method Invocation, and the development of an HLA interface for Digital Image Design's 3Dream gaming engine. 10/96 - 12/98.

Senior Staff, MITRE, February 1995 – March 1997

Investigator and Task Leader on the Aggregate Level Simulation Protocol (ALSP) project. Provided support in Systems Engineer role to the ALSP Joint Training Confederation (JTC). The JTC is comprised of up to 12 Service and Joint simulation systems, and is employed to support several large-scale Command-Post Exercises (CPXs) annually, in the United States, Europe and Asia. Activities in support of the ALSP project included: review and evaluation of JTC functional evolution designs, generation and review of JTC test plans, JTC test coordination and reporting, VV&A process development and execution, protocol maintenance and evolution, model specification maintenance and evolution, and exercise support. 2/95 - 6/98.

Co-author of DMSO VV&A Recommended Practices Guide. As a member of the Defense Modeling and Simulation Office (DMSO) Verification, Validation and Accreditation (VV&A) Technical Support Team, participated in the development of the guide. 1/96 – 4/96.

Research Associate, Virginia Tech Systems Research Center, August 1993 – November 1994.

Served as Investigator on *An Evaluation and Risk Assessment of the Technologies Required for A Multivariate Assessment and Research System*, (Richard E. Nance, Principle Investigator). Examined the modeling methodological implications of the proposed MARS architecture and advanced distributed simulation (ADS) techniques such as Distributed Interactive Simulation (DIS). Factors considered included methodological support for resolving underlying differences in: (1) model use (e.g. training vs. study), (2) time flow mechanisms, (3) conceptual frameworks, (4) levels of fidelity, (5) implementation languages, and (6) model objectives. The investigation also included an Objectives/Principles/Attributes assessment of MARS, a comparative evaluation of the languages C++ and MODSIM II with respect to the MARS objectives, and a technical risk assessment of DIS.

Instructor, Radford University, August 1993 –December 1993.

Taught two undergraduate-level courses within the Computer Science department during the Fall semester 1993. CS 109 -- *Problem Solving and Programming*, an introduction to programming for non-majors. Introduced basic concepts in program design using TURBO Pascal. CS 122 -- *Discrete Mathematics for Computer Science*, topics covered include: Boolean logic, circuit design, proof techniques, set theory, counting theory, graph theory.

Computer Systems Administrator, Virginia Tech Systems Research Center, September 1988 – January 1990; August 1990 – August 1993.

Managed Systems Research Center computing facilities which included: VAX 11/785 running UNIX, SUN 4/330 SPARCserver running SunOS/Solaris, two Bridge CS/100 terminal servers, DECstation 5000 series, DEC VT-series and X-terminals, DEC lineprinter and Apple laserprinter under NeWSprint. Maintained day-to-day operations; e.g. mail, accounting, file system administration and backups, hardware/software installation and networking. Configured systems to permit running under a classified operating system.

Instructor/Consultant, Southwest Virginia Governor's School, February 1992 – June 1992.

Taught introductory Pascal course, and directed independent studies in various aspects of Computer Science. Assisted in configuration and maintenance of a PC lab using a token ring configuration of IBM PCs (under EDLAN software).

Graduate Research Assistant, Virginia Tech, May 1988 – September 1988; January 1990 – August 1990.

Investigator on IBM VISION Architecture project (ALSP) project. Served on *Simulation Model Development Environment: Its Application to IBM's VISION Architecture*, (Osman Balci, Principal Investigator). Participated in the design of a simulation model specification language for a Visual Simulation Support Environment (VSSE). Constructed a compiler for the VSSE specification language using Lex and Yacc. Conducted a simulation study of the proposed IBM VISION architecture using a prototype of the VSSE.

Investigator on Model Development Environment (MDE) project. Served on *Model Development Environments: Experimental Prototypes*, (Osman Balci, Principal Investigator; Richard E. Nance, Project Manager). Developed a model generator prototype for a Model Development

Environment running on a SUN-3/160 platform. The prototype was constructed using C, SunView, and the INGRES relational database management system (EQUEL-C).

Professional Activities:

HONORS, AWARDS AND CERTIFICATES:

- Association for Computing Machinery, Service Award, 1997, 2003.
- The MITRE Corporation
 - Directors Award, October 2007
 - Corporate Author of the Month, July 1999.
 - Director's Distinguished Accomplishment Award, 1997.
- Modeling and Simulation Professional Certification Commission
 - Certified M&S Professional (Charter Member), 2002.
- Upsilon Pi Epsilon, Honor Society in the Computing Sciences, Inducted 1990.

PROFESSIONAL SOCIETIES:

- Association for Computing Machinery (ACM)
 - Special Interest Group on Simulation (SIGSIM)
 - Chair, 1999 - 2001.
 - Vice Chair, 1997 - 1999.
 - Secretary/Treasurer, 1995 - 1997.
 - Representative to Winter Simulation Conference Board of Directors, 2001-present.
- Society for Computer Simulation (SCS)
 - Director at Large, 2002 - 2003.

EDITORIAL ACTIVITIES:

- Advisory Board, *Journal of Simulation*, 2005-present.
- Area Editor for Military Applications, *SCS Simulation*, 2001-present.
- Associate Editor, *Journal of Defense Modeling and Simulation*, 2003-present.
- Associate Editor, *ACM Transactions on Modeling and Computer Simulation*, 1999-2008.
- Associate Editor, *IEEE Transactions on Systems, Man and Cybernetics*, 2000-2001.
- Guest Editor, *SCS Simulation*, Special Issue on Parallel and Distributed Simulation, **81**(4), April 2005.
- Guest Editor (with W.H. Lunceford), *SCS Simulation*, Special Issue on Grand Challenges for Modeling and Simulation, **80**(9), September 2004.
- Guest Editor (with A.G. Bruzzone and A. Uhrmacher), *Future Generation Computer Systems*, Special Section: Best of WEBSIM 99, **17**(5), March 2001.
- Guest Editor, *ACM Transactions on Modeling and Computer Simulation*, Special Issue on Web-Based Modeling and Simulation, **10**(1), January 2000.
- Reviewer, *ACM Computing Reviews*, 1994 - 2001.

CONFERENCE CHAIRMANSHIP:

- Program Co-Chair for the 2004 Workshop on Parallel and Distributed Simulation, Kufstein, Austria, 16-19 May 2004.
- Program Chairman for the First International Conference on Grand Challenges for Modeling and Simulation, San Antonio, TX, 27-31 January 2002.

- Program Chairman for the 1999 SCS International Conference on Web-Based Modeling and Simulation, San Francisco, CA, 17-20 January 1999.

PROGRAM ORGANIZATION:

- Board of Directors
 - Winter Simulation Conference
 - Chair, 2007,2008
 - Vice Chair, 2006
 - Secretary, 2005
 - Member, 2001-2004, 2009
- Organizer
 - Dagstuhl Seminar on Grand Challenges for Modeling and Simulation, 2002.
- Program Committee
 - Agent-Directed Simulation, 2005-2007
 - AI, Simulation and Planning Conference, 2000, 2002, 2004.
 - Conference on Enabling Technology for Simulation Science, 1998.
 - European Simulation Multiconference, 1999.
 - International Conference on Human-Computer Interface Advances for Modeling and Simulation, 2005.
 - International Conference on Web-Based Modeling and Simulation, 1998, 2000, 2001.
 - Workshop on Parallel and Distributed Simulation, 2000, 2002-2006, 2009.
- Track Coordinator
 - Simulation Interoperability Workshop (Testing Forum), 1997.
 - Winter Simulation Conference (Modeling Methodology), 2000
 - Winter Simulation Conference (Military Applications), 1999, 2006.
- Session Chair
 - Conference on Enabling Technology for Simulation Science, 1998.
 - International Conference on Web-Based Modeling and Simulation, 1998.
 - Summer Computer Simulation Conference, 1997.
 - Winter Simulation Conference, 1995, 1997, 1999, 2001, 2004.

CONFERENCE KEYNOTE ADDRESSES:

- “Beyond Speedup: PADS, the HLA and Web-Based Simulation,” 13th Workshop on Parallel and Distributed Simulation, Atlanta, GA, 1-4 May 1999.

INVITED PRESENTATIONS:

- “Thoughts on Science and Military Simulation,” given at the SimScience Workshop, National Defense University, Washington, DC, 4-6 June 2002.
- “The ALSP Joint Training Confederation -- A Case Study of Federation Testing and VV&A,” given to the Computer Science Graduate Colloquium, Old Dominion University, 21 November 1997.
- “Advanced Distributed Simulation through the Aggregate Level Simulation Protocol,” given to the Virginia Tech Graduate Seminar, Department of Computer Science, 8 November 1995.
- “Simulation Model Specification: On the Role of Model Representation in the Model-Centered Sciences,” given to the *ORSA Computer Science Technical Session Conference*, Williamsburg, VA, 5 January 1994.

Publications:

BOOKS AND MONOGRAPHS:

1. Ernest H. Page, A.L.M. Thom Mclean, Johannes Luthi, and Axel Lehman, Editors. *Proceedings of the 18th Workshop on Parallel and Distributed Simulation*, 16-19 May 2004, Kufstein, Austria, 205 pages.
 2. Wendell H. Lunceford and Ernest H. Page, Editors. *Proceedings of the First International Conference on Grand Challenges for Modeling and Simulation*, 27-31 January 2002, San Antonio, TX, 103 pages.
 3. Agostino G. Bruzzone, Adelinde Uhrmacher and Ernest H. Page, Editors. *Proceedings of the 1999 International Conference on Web-Based Modeling and Simulation*, SCS Simulation Series **31**(3), 17-20 January 1999, San Francisco, CA, 255 pages.
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CHAPTERS IN BOOKS:

1. Ernest H. Page. "Theory and Practice for Simulation Interconnection: Interoperability and Composability in Defense Simulation", *CRC Handbook of Dynamic Systems Modeling*, P.A. Fishwick, Ed., CRC Press, 2007.
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ARCHIVAL JOURNALS:

1. Ernest H. Page and Marc Abrams. "Simulation Model Development and Analysis in UNITY," *Annals of Operations Research*, **104**, pp.181-21, April 2002.
 2. Ernest H. Page and Jeffrey M. Opper. "Investigating the Application of Web-Based Simulation Principles within the Architecture for a Next-Generation Computer Generated Forces Model," *Future Generation Computer Systems*, **17**, pp. 159-169, Elsevier Science Publishing, 2000.
 3. Ernest H. Page, Arnold Buss, Paul A. Fishwick, Kevin J. Healy, Richard E. Nance and Ray J. Paul. "Web-Based Simulation: Revolution or Evolution?," *ACM Transactions on Modeling and Computer Simulation*, **10**(1), pp. 3-17, January 2000.
 4. Richard E. Nance, C. Michael Overstreet and Ernest H. Page. "Redundancy in Model Specifications for Discrete Event Simulation," *ACM Transactions on Modeling and Computer Simulation*, **9**(3), pp. 254-281, July 1999.
 5. Ernest H. Page and Richard E. Nance. "Incorporating Support for Model Execution within the Condition Specification," *Transactions of the SCS*, **16**(2), pp. 47-62, June 1999.
 6. Ernest H. Page. "Zero Lookahead in a Distributed Time-Stepped Simulation," *Simulation Digest*, **26**(2), pp. 4-13, September 1997.
 7. Ernest H. Page, Bradford S. Canova and John A. Tufarolo. "A Case Study of Verification, Validation and Accreditation for Advanced Distributed Simulation," *ACM Transactions on Modeling and Computer Simulation*, **7**(3), pp. 393-424. July, 1997.
 8. Ernest H. Page. Book Review -- A Revolution in Simulation, *ACM Transactions on Modeling and Computer Simulation*, **4**(4), pp. 368-369, October 1994.
 9. Ernest H. Page. "In Defense of Discrete Event Simulation," (Technical Correspondence), *ACM Transactions on Modeling and Computer Simulation*, **3**(4), pp. 281-286, October 1993.
 10. Ernest H. Page. "The Condition Specification: Revisiting its Role Within a Hierarchy of Simulation Model Specifications," *Simulation Digest*, SIGSIM **22**(3) (TCSIM 35), pp. 11-33, Spring 1993.
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MAGAZINES :

1. Ernest H. Page. "On Software and Systems Architecture -- Toward an Architecture for SMART," *Simulation Technology Magazine*, 4(2), Simulation Interoperability Standards Organization, Orlando, FL, January 2001.
 2. Ernest H. Page. "Web-Based Simulation Technology," *Simulation Technology Magazine*, 1(1), Simulation Interoperability Standards Organization, Orlando, FL, September 1998.
 3. Ernest H. Page. "Web-Based Simulation," *The Edge*, The MITRE Advanced Technology Newsletter, The MITRE Corporation, McLean, VA August 1998.
 4. Ernest H. Page and Richard M. Weatherly. "Advanced Distributed Simulation: It's About Time, and State," *The Technology Track*, 1(2), Division W150 Newsletter, The MITRE Corporation, McLean, VA, April 1998.
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CONFERENCE AND WORKSHOP PROCEEDINGS:

1. Osman Balci and Ernest H. Page. "Potential Technologies for Engineering Network-Centric Simulations," In: *Proceedings of the 2009 Summer Computer Simulation Conference*, pp. 470-475, San Diego, CA.
2. David W. Bauer, Matthew McMahon, and Ernest H. Page. "An Approach for the Effective Utilization of GPUs in Parallel Combined Simulation, In: *Proceedings of the 2008 Winter Simulation Conference*, pp. 695-702, Miami, FL, 7-10 December 2008.
3. David W. Bauer and Ernest H. Page. "Optimistic Parallel Discrete Event Simulation of the Event-Based Transmission Line Matrix Method," In: *Proceedings of the 2007 Winter Simulation Conference*, pp. 676-684, Washington, D.C., 9-12 December 2007.
4. David W. Bauer and Ernest H. Page. "An Approach for Incorporating Rollback Through Perfectly Reversible Computation in a Stream Simulator," In: *Proceedings of the 2007 Workshop on Principles of Advanced and Distributed Simulation*, pp. 171-178, San Diego, CA, 2007.
5. Emmet Beeker and Ernest H. Page. "A Case Study of the Development and Use of a MANA-Based Federation for Studying U.S. Border Operations," In: *Proceedings of the 2006 Winter Simulation Conference*, pp. 841-847, Monterey, CA, 3-6 December 2006.
6. William Weiland, Richard Weatherly, Keven Ring, Ernest Page, Robert Mikula and Fred Kuhl. "Simplified Concurrency: A Java Simulation Framework," In: *Proceedings of the Object-Oriented Programming, Systems, Languages and Applications Conference*, 2005.
7. Richard M. Weatherly and Ernest H. Page. "Efficient Process Interaction Simulation in Java: Implementing Co-Routines Within a Single Java Thread," In: *Proceedings of the 2004 Winter Simulation Conference*, pp. 1437-1443, Washington, DC, 5-8 December 2004.
8. Ernest H. Page, Richard Briggs and John A. Tufarolo. "Toward a Family of Maturity Models for the Simulation Interconnection Problem," In: *Proceedings of the 2004 Spring Simulation Interoperability Workshop*, 04S-SIW-145, Arlington, VA. 18-23 April 2004.
9. Jerry Banks, Joseph C. Hagan, Peter Lendermann, Charles McLean, Ernest H. Page, C. Dennis Pegden, Onur Ulgen, and James R. Wilson. "The Future of the Simulation Industry," In: *Proceedings of the 2003 Winter Simulation Conference*, pp. 2033-2043, New Orleans, LA, 7-10 December 2003.
10. Ernest H. Page. "Thoughts on Science and Military Simulation," SimScience Workshop, National Defense University, Washington, DC, 4-6 June 2002.
11. Ernest H. Page and Wendell H. Lunceford. "Architectural Principles for the U.S. Army's Simulation and Modeling for Acquisition, Requirements and Training (SMART) Initiative," In: *Proceedings of the 2001 Winter Simulation Conference*, pp. 767-770, Washington, DC, 9-12 December 2001.
12. Ernest H. Page. "Beyond Speedup: PADS, the HLA and Web-Based Simulation," In: *Proceedings of the 13th Workshop on Parallel and Distributed Simulation*, R.M. Fujimoto and S. Turner, Eds., pp. 2-9, Atlanta, GA, 1-4 May, 1999.

13. Ernest H. Page and Jeffrey M. Opper. "Observations on the Complexity of Composable Simulation," In: *Proceedings of the 1999 Winter Simulation Conference*, pp. 553-560, Phoenix, AZ, 5-8 December 1999.
14. Ernest H. Page, David M. Nicol, Osman Balci, Richard M. Fujimoto, Paul A. Fishwick, Pierre L'Ecuyer and Roger Smith. "Strategic Directions in Simulation Research," In: *Proceedings of the 1999 Winter Simulation Conference*, pp. 1509-1520, Phoenix, AZ, 5-8 December 1999.
15. Ernest H. Page. "The Rise of Web-Based Simulation: Implications for the High Level Architecture," In: *Proceedings of the 1998 Winter Simulation Conference*, pp. 1663-1668, Washington, DC, 13-16 December 1998.
16. Ernest H. Page and Roger Smith. "Introduction to Military Training Simulation: A Guide for Discrete Event Simulationists," In: *Proceedings of the 1998 Winter Simulation Conference*, pp. 53-60, Washington, DC, 13-16 December 1998.
17. Ernest H. Page, Sean P. Griffin and S. Lynn Rother. "Providing Conceptual Framework Support for Distributed Web-Based Simulation within the High Level Architecture," In: *Proceedings of SPIE: Enabling Technologies for Simulation Science II*, pp. 287-292, Orlando, FL, 13-17 April 1998.
18. David Prochnow, Ernest H. Page and Bryan Youmans. "Development of a Federation Management Tool: Implications for HLA," In: *Proceedings of the 1998 Spring Simulation Interoperability Workshop*, Orlando, FL, 9-13 March 1998.
19. Ernest H. Page, Arnold Buss, Paul A. Fishwick, Kevin J. Healy, Richard E. Nance and Ray J. Paul. "The Modeling Methodological Impacts of Web-Based Simulation," In: *Proceedings of the 1998 SCS International Conference on Web-Based Modeling and Simulation*, pp. 123-128, San Diego, CA, 11-14 January 1998.
20. Ernest H. Page, Robert L. Moose and Sean P. Griffin. "Web-Based Simulation in Simjava using Remote Method Invocation," In: *Proceedings of the 1997 Winter Simulation Conference*, pp. 468-474, Atlanta, GA, 7-10 December 1997.
21. Ernest H. Page and William E. Babineau. "The ALSP Joint Training Confederation: A Case Study of Federation Testing," In: *Proceedings of the 1997 Fall Simulation Interoperability Workshop*, pp. 377-386, Orlando, FL, 8-12 September 1997.
22. Sean P. Griffin, Ernest H. Page, C. Zachary Furness and Mary C. Fischer. "Providing Uninterrupted Training to the Joint Training Confederation (JTC) Audience During Transition to the High Level Architecture (HLA)," In: *Proceedings of the 1997 Simulation Technology and Training Conference*, pp. 197-201, Canberra, Australia, 17-20 March 1997. (Reprinted in: *Proceedings of the 1997 Fall Simulation Interoperability Workshop*, pp. 887-893, Orlando, FL, 8-12 September 1997.)
23. David Prochnow, Ernest H. Page and Mary C. Fischer. "Management of the Joint Training Confederation Family of Specifications," In: *Proceedings of the 1997 Spring Simulation Interoperability Workshop*, Orlando, FL, 3-6 March 1997.
24. Richard E. Nance, C. Michael Overstreet and Ernest H. Page. "Redundancy in Model Representation: A Blessing or a Curse?" In: *Proceedings of the 1996 Winter Simulation Conference*, pp. 701-707, Coronado, CA, 8-11 December 1996.
25. John A. Tufarolo and Ernest H. Page. "Evolving the VV&A Process for the ALSP Joint Training Confederation," In: *Proceedings of the 1996 Winter Simulation Conference*, pp. 952-958, Coronado, CA, 8-11 December 1996.
26. Richard M. Weatherly, Annette L. Wilson, Bradford S. Canova, Ernest H. Page, Anita A. Zabek and Mary C. Fischer. "Advanced Distributed Simulation through the Aggregate Level Simulation Protocol," In: *Proceedings of the 29th Hawaii International Conference on System Sciences*, Volume 1, pp. 407-415, Wailea, Hawaii, 3-6 January 1996.
27. C. Michael Overstreet, Ernest H. Page and Richard E. Nance. "Model Diagnosis Using the Condition Specification: From Conceptualization to Implementation," In: *Proceedings of the 1994 Winter Simulation Conference*, pp. 566-573, Orlando, Florida, 12-15 December 1994.
28. Ernest H. Page and Richard E. Nance. "Parallel Discrete Event Simulation: A Modeling Methodological Perspective," In: *Proceedings of the ACM/IEEE/SCS 8th Workshop on Parallel and Distributed Simulation*, pp. 88-93, Edinburgh, Scotland, 6-8 July 1994.
29. Marc Abrams, Ernest H. Page and Richard E. Nance. "Linking Simulation Model Specification and Parallel Execution Through UNITY," In: *Proceedings of the 1991 Winter Simulation Conference*, pp. 223-232, Phoenix, Arizona, 8-11 December 1991.
30. Marc Abrams, Ernest H. Page and Richard E. Nance. "Simulation Program Development by Stepwise Refinement in UNITY," In: *Proceedings of the 1991 Winter Simulation Conference*, pp. 233-242, Phoenix, Arizona, 8-11 December 1991.

31. Osman Balci, Richard E. Nance, E. Joseph Derrick, Ernest H. Page, and John L. Bishop. "Model Generation Issues in a Simulation Support Environment," In: *Proceedings of the 1990 Winter Simulation Conference*, pp. 257-263, New Orleans, LA, 9-12 December 1990.
32. Ernest H. Page and Richard E. Nance. "Model Generators: An Example of Evolutionary Prototyping," In: *Proceedings of the 19th Annual Virginia Computer Users Conference*, pp. 19-28, Blacksburg, VA, 8-10 September 1989.

TECHNICAL REPORTS AND WORKING PAPERS:

1. David W. Bauer and Ernest H. Page. Combat Cloud – Defining a Cloud Computing Capability for the GIG, MITRE Technical Report, MTR080006, McLean, VA, January 2008.
2. H. Abelson, D. Bauer, E. Becker, C. Cerasoli, J. Dimarogonas, G. Gilbert, M. Hamrick, E. Page, W. Smith. State of the Art in High Performance Computing (HPC) and Its Use in Modeling and Simulation of Wireless Communication Networks, MITRE Technical Report, MTR060198, McLean, VA, December 2006.
3. Ernest H. Page. Primer for Development of Journal Articles in Simulation, U.S. Army Model and Simulation Office, Washington, DC, January 2003.
4. William E. Babineau and Ernest H. Page. ALSP Confederation Test Report, MITRE Technical Report 970000040, The MITRE Corporation, McLean, VA, May 1997.
5. Charles V. Duncan, Laura E. Feinerman, C. Zachary Furness, Sean P. Griffin, Annette M. Janeway, Ernest H. Page David Prochnow and Steven S. Specht. ALSP Joint Training Confederation Annual Report", MITRE Technical Report 97W0000015, The MITRE Corporation, McLean, VA, February 1997.
6. John A. Tufarolo and Ernest H. Page. ALSP Confederation Test Report, MITRE Informal Report, The MITRE Corporation, McLean, VA, July 1996.
7. John A. Tufarolo and Ernest H. Page. ALSP Joint Training Confederation Accreditation Report, MITRE Informal Report, The MITRE Corporation, McLean, VA, May 1995.
8. Richard E. Nance and Ernest H. Page. "Evaluation and Risk Assessment of the Technologies Required for a Multiwarfare Assessment and Research System," Technical Report SRC-94-011, Systems Research Center, Virginia Tech, Blacksburg, VA, December 1994.
9. Richard E. Nance and Ernest H. Page. "Objectives/Principles/Attributes Assessment of MARS," Status Report, Systems Research Center, Virginia Tech, Blacksburg, VA, October 1994.
10. Ernest H. Page. *Simulation Modeling Methodology: Principles and Etiology of Decision Support*, Ph.D. Dissertation, Department of Computer Science, Virginia Tech, Blacksburg, VA, September 1994 (Advisor: Richard E. Nance).
11. Richard E. Nance and Ernest H. Page. "Defining and Evaluating the Expectations and Objectives for MARS," Technical Report SRC-94-007, Systems Research Center, Virginia Tech, Blacksburg, VA, May 1994.
12. Ernest H. Page and Richard E. Nance. Simulation Model Specification: On the Role of Model Representation in the Model-Centered Sciences, Technical Report SRC-94-002 (TR-94-04), Systems Research Center and Department of Computer Science, Virginia Tech, Blacksburg, VA, January. Presented at the ORSA Computer Science Technical Session Conference, Williamsburg, VA, 5-7 January 1994.
13. Marc Abrams and Ernest H. Page. "Formally Reasoning About and Automatically Generating Sequential and Parallel Simulations," Technical Report TR-92-55, Virginia Tech, Department of Computer Science, Blacksburg, VA, March 1992.
14. Ernest H. Page. *Model Generators: Prototyping Simulation Model Definition, Specification and Documentation Under the Conical Methodology* M.S. Thesis, Department of Computer Science, Virginia Tech, Blacksburg, VA, August 1990 (Advisor: Richard E. Nance).