

JAMES WALL, PH.D., CMSP

Title:

Director, Computing and Information Technology Division, Texas Center for Applied Technology, Texas Engineering Experiment Station

Project Role: Co-Investigator (Bio-Situational Common Operating Picture (BCOP) Dashboard)

Project Responsibilities: Lead the development team that designs and develop the Bio-Situational Common Operating Picture (BCOP) using dashboard technology.

Relevant Expertise: Dr. Wall has extensive experience in command and control systems, distributed simulation environments, and virtual reality applications. He is currently responsible for organizing and executing large multi-disciplined research programs in computing and information technology involving faculty and staff researchers. Dr. Wall is currently the principal investigator for several simulation programs related to incident management and emergency response. Other research activities are a Digital EMS program that is focused on transmitting real-time video, physiological telemetry, and medical record data between a moving ambulance and an emergency room and a program entitled, University XXI, which is focused on research in support of the U.S. Army's transformation from analog to digital command and control systems. Recently, Dr. Wall served as the Program Chair for the Interservice/Industrial Training, Simulation, and Education Conference (IITSEC, the largest simulation conference in the world – 17000+ registrants from 47 countries) and has been selected to be Conference Chair in 2010. Additionally, he has served as a member of the National Institute of Justice Modeling and Simulation Technical Working Group for the past 3 years. Dr. Wall is a retired Army officer with twenty-two years of active service with assignments covering a broad range of duties – military operations, combat developments, and research and development. His last assignment was as a Senior Computer Scientist with the U.S. Army Research Laboratory at Aberdeen Proving Grounds, Maryland.

Education and Training:

North Carolina State Univ., Raleigh, NC	B.S.	1977	Zoology
Naval Postgraduate School, Monterey, CA	M.S.	1986	Systems Technology (C ³ I)
Texas A&M University , College Station, TX	Ph.D.	1993	Computer Science
U.S. Army Command and Staff College		1990	

Professional Appointments:

2005 – Present	TEES Associate Research Professor, Department of Industrial and Systems Engineering, Texas A&M University
1996 – Present	Director, Computing and Information Technology Division, Texas Center for Applied Technology, Texas Engineering Experiment Station
1993 – 1996	Chief, Advanced Distributed Simulation; Advanced Simulation and High Performance Computing Directorate, U.S. Army Research Laboratory, Aberdeen Proving Ground, MD

Honors:

- 2008 Texas Engineering Experiment Station: "Engineering a Brighter Future Award" (\$5000)
- 2002 Selected by a panel of simulation experts representing industry, government, and academia as a charter member of the National Training and Simulation Association's new certification program for modeling and simulation professionals (Certified Modeling and Simulation Professional – CMSP).

Relevant Publications:

Sibert, K., Ricci, M., Caputo, M., Callas, P., Rogers, F., Charash, W., Malone, P., Leffler, S., Clark, H., Salinas, J., Wall, J., and Kocmoud, C, The Feasibility of Using Ultrasound and Video Laryngoscopy in a Mobile Telemedicine Consult, *Telemedicine and e-Health*, Vol. 14, No. 3, April 2008.

Overby, D., Keyser, J., Wall, J. Multi-View Visualization of Simulated Network Data. Virginia Modeling, Analysis, and Simulation Center Capstone Conference, April 9, 2008.

Wall, J., Elms, R., Nock, D., "Developing an Incident Management Simulation for Training Emergency Responders", *Proceedings of the 2004 Interservice/Industrial Training, Simulation, and Education Conference*, National Training Systems Association, December 6-9, 2004.

Wall, J., Elms, R., Biggers, K., Sticha, P., U.S. Army Research Institute Report No. 1823, Knowledge Networks For Future Force Training: Illustration of Searching, Retrieval, And Communication Concepts, June 2004.

Pooch, U. and Wall, J., *Discrete Event Simulation: A Practical Approach*, CRC Press, Boca Raton, 1993

Research Support:**Title: University XXI Program**

Contract No.: Multiple Contracts PI: Dr. Jim Wall Years 1999-Present

Total Award: \$9,371,000

Agency: US Army Simulation, Training and Instrumentation Command

Summary: Focuses relevant intellectual resources and research facilities of Texas A&M University on complex technical problems faced by the U.S. Army during the transformation process from analog to digital command and control systems.

Title: Support to TEEX – Emergency Management Exercise System

Contract No.: Interagency Agreement PI: Dr. Jim Wall Years 3/1/03-10/31/08

Total Award: \$1,482,182

Agency: Texas Engineering Extension Service (Source Funding – DHS)

Summary: Funded the development and support of a simulation and exercise management systems that is used to train emergency responders from around the country at all levels of incident management and in accordance with the National Incident Management System. To date more than 4000 responders have been trained using this simulation and exercise management system.