

Dr. Gary W. Smith
Associate Professor
Computer Science
Sam Houston State University

Degrees Earned

Ph.D., Computer Science, Texas A&M University, 1998
M.S., Computer Science, Oklahoma State University, 1990
B.S., Computer Science, Texas A&M University, 1986

Peer-Review Publications and Artistic Performances/Exhibitions

Proceedings

"Real-Time GIS Analysis in Patrol Units," 2004 ESRI International User Conference, August 2004, San Diego California.

"Environmental Technology Informatic Database," Maritime Environmental Engineering Technical Symposium, August 2003, Arlington Virginia (with Jones, R., Karaszewski S., Holm, R., Smith G., Judd, C., and Magoo S).

"Military Digging Permit Process Goes Geospatial," 2001 ESRI International User Conference, July 2001, San Diego (with Ruiz, M. and Sheeri, R.).

Research Monographs and Technical Reports

"Environmental Technology Database Development," Government Report, U.S. Air Force Institute for Environmental Safety and Occupational Health Risk Analysis, May 2004.

"Implementation of the ArchHydro Data Model and the Spatial Data System at Fort Hood Army Reservation, Killeen, Texas," Government Report, Engineer Research and Development Center, U.S. Army Corps of Engineers, August 2002 (with HoffPaur, D.).

"Final Report: Integration of Real-time Field Data into the Data Enterprise Repository and Development of Land Management System Tools at Fort Hood," Government Report, Engineer Research and Development Center, U.S. Army Corps of Engineers, August 2002 (with HoffPaur, D.).

"Development of a Data Enterprise Repository at Fort Hood," Government Report, Engineer Research and Development Center, U.S. Army Corps of Engineers, August 2001 (with HoffPaur, D.).

"Phase I Protocol for Comparative Analysis of Soil Erosion Models," Government Report, Waterways Experiment Station, U.S. Army Corps of Engineers, August 2000 (with Hallum, C.).

"Design of a Change Assessment Methodology and A Verification and Sensitivity Analysis Capability for Land Management Models," Government Report, Waterways Experiment Station, U.S. Army Corps of Engineers, August 2000 (with Hallum, C.).

"May 1999 Report of Initial Approaches for a Change Assessment Methodology and a Verification and Sensitivity Analysis Capability for Land Management Models," Government Report, Waterways Experiment Station, U.S. Army Corps of Engineers, May 1999 (with Hallum, C.).

"Summary of Findings from Change Analysis of the Depth 10 and Depth 20 Surface Water Data," Government Report, Waterways Experiment Station, U.S. Army Corps of Engineers, March 1999 (with Hallum, C.).

Funded External Grants

Collaborator, CRIMES project at SHSU Police Research Center, Funding through multiple state police departments. Dates of funded involvement: 1/1/1999-present.

Investigator, "Houston Metro Police Dispatch and Mobile Interface Enhancements," Funded through the Metropolitan Transit Authority of Houston. Dates of funded involvement: 6/1/2005-present.

Investigator, "Brooks AFIERA," Funded through U.S. Air Force Institute for Environmental Safety and Occupational Health Risk Analysis. Dates of project: 1/15/2003 – 5/31/2004. Total project funding: \$1,105,566

Principle Investigator, "Maintenance and Calibration of Field Monitoring Equipment, Integration of Real-time Field Data into the Data Enterprise Repository and Development of Land Management System Tools at Fort Hood, Texas." Funded through U.S. Army Corps of Engineers, Construction Engineering Research Laboratory (USACE/CERL). Dates of project: 9/1/01 to 8/31/02. Total project funding: \$256,953.

Co-Principle Investigator, "Development of a Hydrology Data Repository and Models Tutorial." Funded through U.S. Army Corps of Engineers, Construction Engineering Research Laboratory (USACE/CERL). Dates of project: 9/1/00 to 8/31/01. Total project funding: \$318,193.

Investigator, "National Assessment of Technology and Training for Law Enforcement," Subcontract through Eastern Kentucky University, Originally funded through the National Institute of Justice. Dates of funded involvement: 4/1/2001 to 8/31/2001.

Investigator, "Law Enforcement Information Systems and Strategy Demonstration Product." SHSU Police Research Center, funded through the National Institute of Justice. Dates of funded involvement: 1/2/2000 to 3/31/2001.

Co-Principle Investigator, "Fort Hood Watershed Study and Web-Based Change Assessment Capability in Support of the LMS." Funded through Waterways Experiment Station (U.S. Army Corp of Engineers). Dates of project: 9/1/1999 to 8/31/2000. Total project funding: \$297,801.

Investigator, "Criminal Research, Information Management and Evaluation System." SHSU Police Research Center, funded through the Office of Community-Oriented Policing Services, National Institute of Justice. Dates of funded involvement: 7/1/1999 to 1/1/2000.

Investigator, "Fort Hood Watershed Study and WIARS, WMS, and IDLAMS." Funded through Waterways Experiment Station (U.S. Army Corp of Engineers). Dates of funded involvement: 9/15/1998 to 8/31/99. Total project funding: \$223,543.

Work or Professional Experiences

National Science Foundation, SBIR/STTR Phase I Technical Review Panel, Arlington Va., October 2010.
Panel: Enterprise Applications

National Science Foundation, SBIR/STTR Phase I Technical Review Panel, Arlington Va., August 2009. Panel: Architectures

National Science Foundation, SBIR/STTR Phase II Technical Review Panel, Arlington Va., October 2007.
Panel: Robotics

National Science Foundation, SBIR/STTR Phase I Technical Review Panel, Arlington Va., February 2007.
Panel: Security of Information & Systems.

National Science Foundation, SBIR/STTR Phase I Technical Review Panel, Arlington Va., September 2005.
Panel: Robotics II

National Science Foundation, SBIR/STTR Phase II Technical Review Panel, Arlington Va., April 2004. Panel: Information Technologies

National Science Foundation, SBIR/STTR Phase I Technical Review Panel, Arlington Va., September 2003.
Panel: Security of Information & Systems.

National Science Foundation, SBIR/STTR Phase I Technical Review Panel, Arlington Va., September 2002.
Panel: Operating Environments