Curriculum Vita
December 2025

Instructor: Shelley (Sam) I. Saffer
Academic Department: Computer Science and Information Systems

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EDUCATION:

Doctor of Philosophy	Southern Methodist University	1973
Master of Applied Science	Southern Methodist University	1970
Bachelor of Arts	University of Texas at Austin	1968

Graduate Major: Computer Science
Graduate Minor: Operations Research

TEACHING EXPERIENCE:

1995-present	**Tenured Full Professor**	East Texas A&M
1995-2007	**Department Head**	Texas A&M - Commerce
1990-1995	**Associate Professor**	Oklahoma City University
1980-1983	**Associate Professor**	Texas Woman's University
1970-1980	**Assistant Professor**	University of Texas Health Science Center

Joint Computer Science Program with UT Dallas.

PUBLICATIONS:

ABSTRACTS:

Lewis,M., Buja,L.M., Saffer,S.I., Mishelevich,D.J., Stokely,E.M., Parkey,R.W., Bonte,F.J., Willerson,J.T.: Experimental infarct sizing utilizing three-dimensional computer processing reconstruction techniques. Am. J. Cardiol. Vol 39, p.316. 1977.

Nixon,J.V., Saffer,S.I.: Three Dimensional Echoventricolograpgy. Circulation. Vol 58 Supp.II. P.157, 1978.

PUBLICATIONS: Shelley Irving Saffer, Ph.D.

Saffer,S.I., A stochastic simulation model of normal-abnormal liver function. Ph.D. Dissertation, Southern Methodist University,June, 1973.

Saffer,S.I., Mishelevich,D.J., Central real-time laboratory automation in a medical environment. Proceedings of the Federation of North Texas Area Universities, Second Annual Computer Science Conference., pp. 230-245. 1975.

Saffer,S.I., Mishelevich,D.J.: A definition of real-time computing. Comm. ACM (Forum) Vol.#18, No.9, pp.554-555, Sept. 1975.

Saffer,S.I., Mize,C., Bhat,U.N., Szygenda,S.A.: Use of non-linear programming and stochastic modeling in the normal-abnormal evaluation of liver disease. IEEE Tran. Biomed. Engineering. Vol.#3, pp.200-207, May 1976.

Saffer,S.I., Nixon,J.V., Mishelevich,D.J.: A simple method for computer-aided analysis of echocardiograms. American Jour. Cardiology. Vol 38, pp.34-37, July 1976.

Galosy,R., Saffer,S.I., Fox,S.J.: CARDAT, A computer program for acquisition and analysis of cardiovascular data. Behavioral Research Methods and Instrumentation. Vol#8, pp.309-310, 1976.

Saffer,S.I., Daniel,P.L., Mize,C.E.: The comparison of a four-compartmental and a five-compartmental model of rose bengal transport through the hepatic system. Non-linear Systems and Applications. An International Conference Proceedings. Edited V.Lakshmikantham. pp.657-670. Academic Press, 1977.

Anderson,D.H., Eisenfeld,J., Saffer,S.I., Reisch,J.S., Mize,C.E.: The mathematical analysis for a four-compartment stochastic model of rose bengal transport through the hepatic system. Non-linear Systems and Applications, Conference Proceedings. Edited V.Lakshmikantham. pp. 353-371. Academic Press, 1977.

Saffer,S.I., Mishelevich,D.J., Fox,S.J., Summerour,V.: NODAS - The Network Oriented Data Acquisition System for the medical environment. Proceeding National Computer Conf.#(NCC). AFIPS Vol#46. pp.295-299, 1977.

Lewis,M. Buja,L.M., Saffer,S.I., Mishelevich,D.J., Stokley,E.M., Lewis,S., Parkey,R., Bonte,F., Willerson,J.A.: Experimental infarct sizing utilizing computer processing and a three-dimensional model. Science. Vol#197, pp.167-169. July 1977.

Poliner,L.R., Buja,L.M., Parkey,R.W., Stokely,E.M., Stone,M.J., Harris,R., Saffer,S.I., Templeton,G.H., Bonte,F.J., Willerson J.T.:Comparison of different noninvasive methods of infarct sizing during experimental myocardial infarction. Journ. Nuc. Med. June 1977.

Mishelevich,D.J., Ward,D.L., Saffer,S.I.: A medical computer science program within a tri-institutional Mathematical Sciences Ph.D. program. Proceedings of the American Society for Information Sciences. Vol 15, pp.229-232, 1978.

Horn,V., Mullins,C.B., Saffer,S.I., Jones,D.C., Freeborn,W.A., Kapp,R.S., Nixon,J.V.: A comparison of mathematical models for estimating right ventricular volumes in animals and man. Clin. Card. Vol 2, pp.341-347, 1979.

Smith,D.B., Gatchel,R.J., Kroman,M., Saffer,S.I.: EEG and automatic responding to verbal, spatial and emotionally arousing tasks. Biol. Psy. Vol 9, pp.189-200. Nov. 1979.

Roan,P.G., Scales,F., Saffer,S.I., Buja,M., Willerson,J.T.: Functional characterization of LV segmental responses during the initial 24 hours and one week following experimental caninemyocardial infarction. Journ. Clin. Investigation. Vol 64,pp.1074-1088. 1979.

Lewis,M.H., Buja,L.M., Parkey,R.W., Mishelevich D.J., Bonte,F.J., Saffer,S.I., Richmond,J.R., Willerson,J.T.; A computer-based scintigraphic method for sizing acute inferior myocardial infarcts. Radiology. Nov, 1980.

Roan,P.G., Buja,L.M., Izquerdo,C., Hashimi,H., Saffer,S.I., Willerson,J.T.: Interrelationships between regional LV functional, coronary blood flow and myocellular necrosis during the initial 24 hours and 1 week after experimental coronary occlusion. Circulation Research. Vol#49, No.1, pp.31-40. July, 1981.

Saffer,S.I., Ward,D.L., Mishelevich,D.J.; Design of a relational database for the study of ischemic heart disease. Proceedings of the Fifth Annual Symposium on Computer Applications in Medical Care. Nov. 1981.

Sang C. Suh and S. I. Saffer, "Intelligent Expert Database System for General Physical Evaluation," Proceedings of the 7th International Conference on Artificial Intelligence and Expert Systems Applications, Nov. 9-10,1995, San Francisco, CA.

Sang C. Suh and S. I. Saffer, "Intelligent Expert Database System for Differential Diagnosis of Ear Diseases", The 7th International Conference on Artificial Intelligence & Expert Systems Applications, October 21-22, 1996, Paris, France.

Wen-Chang Weng, S. I. Saffer, "First Aid Advisor - An Expert System", Proceedings of the 2nd World Conference on Integrated Design and Process Technology, Austin, Texas, Dec. 1-4, 1996.

Saffer S. I. and Sang C. Suh, "Role of Orthogonal Vectoring of Data in the Reasoning of Expert Database Systems," The 9th International Conference on Artificial Intelligence and Expert Systems Applications, p.9-14, October 14-15, 1997, London.

Suh, Sang C., Saffer, S.I., "A Step Toward An Effective Method For Product Search, A User Model and Profile Based Search", Proceedings of the 6th World Conference on Integrated Design Process Technology, Session #16, No. 5, June 23-27, 2002, Pasadena, California.

Suh, Sang C., Saffer, S.I., Kincaid, V.N.,Yu, B., "Web Structure Reorganization for Adaptive Navigation Through Conceptual Clustering", Proceedings of Intelligent Engineering Systems Through Artificial Neural Networks, Vol. 13 , 2003, pp. 807-812.

Sang C. Suh, S. Saffer, D. Li, and J. Gao, "A New Insight Into Prediction Modeling System," Proceedings of The 7th World Conference on Integrated Design and Process Technology, 13 pages, December 3-6, 2003, Austin, Texas, U.S.A.

Sang C. Suh, S. Saffer, V. Kincaid, and B. Yu, "Web Structure Reorganization For Adaptive Navigation Through Conceptual Clustering," Intelligent Engineering Systems Through Artificial Neural Networks, Vol. 13, pp. 807-813, ASME Press, 2003, ISBN 0-7918-0204-3.

Sang C. Suh, S. Saffer, and Dan Li, "A New Insight into Prediction Modeling Systems", Journal of Integrated Design & Process Science, The Society for Design and Process Science & Software Engineering Society, Vol. 8, No. 2, pp. 85-104, June 2004.

Sang C. Suh, and S. I. Saffer, "Generating Meaningful Rules Using Attribute Concept Hierarchy", *Intelligent Engineering Systems Through Artificial Neural Networks* Vol. 16, pp. 406-411, ASME Press, New York, 2006, ISBN 0-7918-2222-0.

Sang C. Suh and S. I. Saffer, "Discovery of Useful Concepts Using the Hierarchy of Attributes and Concepts", Intelligent Engineering Systems Through Artificial Neural Networks Vol. 17, pp. 519-526, ASME Press, New York, 2007, ISBN 0-7920-2222-0.

Sang C. Suh, S. I. Saffer, and Naveen Kumar Adla, "Extraction of Meaningful Rules in a Medical Database", Proceedings of The 7th International Conference on Machine Learning and Applications (ICMLA'08),IEEE Systems, Man, and Cybernetics, 7 pages, San Diego, California, December 11-13, 2008.

Sang C.Suh, S.I. Saffer, S. G. Anaparthii, N. M. Sirakov, 2009, "Basics of Concepts Representation for Document Summarization", INC, IMS and IDC, 2009 Fifth International Joint Conference on 25-27 Aug. 2009 Page(s):1374 – 1380, IEEE Xplore Digital Library , ISBN: 978-0-7695-3769-6

Sang C. Suh, Sam I. Saffer, and Jhansi Baireddy, "Visual Representation of Hierarchy of Attributes and Concepts as Ontology for Semantic Reasoning", *Intelligent Engineering Systems Through Artificial Neural Networks,* Vol. 20, pp. 49-56, ASME Press, New York, 2010, ISBN 978-0-7918-5959-9.

Erdal Cosgun, Sam I. Saffer and Sang C. Suh, "Random Forest and Boosted Classification Tree Based Multifactor Dimensionality Reduction Analysis", *Proceedings of The 16^{h} World Conference on Integrated Design and Process Technology (SDPS2011)*, the Society for Design and Process Science & Software Engineering Society, 15 pages, Jeju, Korea, June 12-16, 2011.

Pramukh Karla, Sam I. Saffer and Sang C. Suh, " Identification of Class of Services in the Internet and a Proposed Approach to Traffic Prioritization at Layer 3," *Proceedings of the IEEE Southeast Conference*, Orlando, FL, March 15-18, 2012.

Technical Report:
Saffer, S.I., Technical Report: Advanced Artificial Science. The development of an artificial science and engineering research infrastructure to facilitate innovative computational modeling, analysis, and application to interdisciplinary areas of scientific investigation. Final report: DOE award DE-SC0001132. U.S. Department of Energy, Office of Scientific and Technical Information. October, 2014. http://www.osti.gov/scitech/biblio/1164708.

RESEARCH GRANTS AND AWARDS

FUNDED GRANTS:

Jan.2006-May. 2006. Corvus I: Proposal: The Development of a Unified Macro-Net Framework (UMF) and Accompanying Plug-in Analysis Knowledge Modules (PAKMs).
S. Saffer, Ph.D., (PI), Derek Harter, Ph.D. (Co-PI), Shulan Lu, (Co-PI),: Sang Suh, Ph.D.(Co-PI). Funded as the Corvus I Project by L3 Communications /ComCept Divison. $40,000.

Jun.2006-Dec. 2006 Corvus II: A Continuation of the Development of a Unified Macro-Net Framework (UMF) and Accompanying Plug-in Analysis Knowledge Modules (PAKMs).
S. Saffer, Ph.D. (PI), Derek Harter, Ph.D. (PI), Shulan Lu, Ph.D. (Co-PI), Sang Suh, Ph.D. (Co-PI). Funded as the Corvus II Project by L3 Communications /ComCept Divison for $20,000.

Jan. 2007 Corvus III, The Development of a Artificial Curiosity Cyberinfrastructure.
S. Saffer, Ph.D. (PI), Derek Harter, Ph.D. (PI). Shulan Lu, Ph.D., (Co-PI), Sang Suh, Ph.D. (Co-PI). Funded as the Corvus III Project by L3 Communications /ComCept Divison for $135,000.

2006-2009 Project Steem: A High-intensity, Team-based Approach to Increasing Enrollment and Graduation in STEEM (Science, Technology, Engineering, Education, Math) Disciplines Among Underrepresented Groups in the Northeast Texas Area.
Investigators: Ben Doughty, Rick Kreminski, Ph.D., Sam Saffer, Ph.D., Gilbert Naizer, Ph.D.. Co-Writer, Shannon Ragland. Funded by the Greater Texas Foundation to promote interest and learning in the areas of Science, Technology, Engineering, Education & Math. Funded by the Greater Texas Foundation for $1.5 Million.

Jan. 2009- 2011 National Science Foundation Grant: M2T2 - Maximizing Motivation, Targeting Technology. : Gilbert Naizer, Ph.D., (PI), S. I. Saffer, Ph.D., (Co-PI), Tracy B. Henley, Ph..D. (Co-PI), Bao-An Li, Ph.D., (Co-PI). A three year grant under the NSF ITEST Program (Innovative Technology Experiences for Students and Teachers). $990,000.

2009 – 2012. U.S. Department of Energy Grant TX-W-20090427-0004-50. Advanced Artificial Science. The development of an artificial science and engineering research infrastructure to facilitate innovative computational modeling, analysis, and application to interdisciplinary areas of scientific investigation. S. Saffer, Ph.D. (PI), Derek Harter, Ph.D., (Co-PI), Sang Suh, Ph.D., (Co-PI), Shulan Lu, Ph.D., (Co-PI), Frank Miskevich, Ph.D., (Co-PI). Funded by the Department of Energy. $860,000.

AWARDS and HONORS
Faculty Senate Recognition Award for Professional Excellence University Service Award 2013-2014