

SANG C. SUH

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PROFESSIONAL PREPARATION

Ph.D. Computer Science
Southern Methodist University, U.S.A., 1990
M.S. Computer Science
University of Hawaii, U.S.A., 1986

AREAS OF EXPERTISE

1. Intelligent/Robust Systems (Knowledge Discovery, Data Mining, & Data Warehousing)
2. Knowledge Engineering (Expert & Knowledge-based Systems), adaptive user interfaces

PROFESSIONAL APPOINTMENTS

1991-present Head and Associate Professor, Department of Computer Science & Information Systems, Texas A&M University-Commerce (*formerly* East Texas State University), U.S.A.
1990-1991 Instructor, Dept. of Computer Science & Engineering, Southern Methodist University, U.S.A.

RESEARCH GRANTS (A few most recent selected)

2009 Co-PI, United States Department of Energy. \$369,000 (Funding Number: DE-SC0001132), "The development of an artificial science and engineering research infrastructure to facilitate innovative computational modeling, analysis, and application to interdisciplinary areas of scientific investigation", Sept. 1, 2009.
2009-10 Principle Investigator, Texas A&M University – Commerce Research Grant, "Robust Data and Visual Analytic Tool for Automatic Information Retrieval From Massive Data Sets", \$10,666/1yr.
2008-9 Principle Investigator, Texas A&M University – Commerce Research Grant, "Role of Intentionality for Data and Visual Analytics in Digital Document Processing", \$11,000/1yr.
2005-2007 Co-Investigator, L-3 Comcept Research Grant, Award \$295,000, Embeddable Intelligent Information Retrieval System (EI²RT) For The Automatic Object Discovery Identification, Location, and Tracking Research, L-3 Comcept Corporation, Rockwell, Texas.
2006-7 Principle Investigator, Texas A&M University – Commerce Research Grant, "SmartRetrieve – An Embedded Intelligent Knowledge Retrieval System", \$8000/1yr.
2006 Principle Investigator, Texas Higher Education Coordinating Board 2006 Advanced Research Program Competition, "A Next-Generation Cyber Tool for Automatic Knowledge Extraction from Internet Archive", 2 year / \$98,900, Proposed investigation of the development of intelligent search engine as an archival data management tool for cyber intelligence.
2006 Principle Investigator, Department of Defense, Defense Advanced Research Projects Agency – Computer Science Study Group (CS2G) proposal (CS2G Application Number: CS06-165), "An Embedded Intelligent Information Retrieval System", 1 year / \$88,000, proposed investigation of an intelligent knowledge discovery system through the implementation of embeddable intelligent knowledge extraction engine using various data mining methods.

SYNERGISTIC ACTIVITIES (Selected)

Program Chairman

The 13th World Conference on Integrated Design & Process Technology, 2009, Auburn, AL.

Keynote Speaker

The 10th International Conference on Computers, Communications and Systems, ICCCS 2009, November 6, 2009, Daegu, Korea.

International Editorial Board member

GConference.net (<http://gconference.net/eng/index.html>), established by AICIT.

Program committee member for numerous international conferences (Four selected below)

The World Congress on Computer Science and Engineering, July 13-17, 2009, U.S.A.

The 12th World Conference on Integrated Design & Process Technology, 2008, Taiwan.

The 11th World Conference on Integrated Design & Process Technology, 2007, Turkey.

Advisory committee member

The 10th International Conference on Computers, Communications and Systems, ICCCS 2009, November 6, 2009, Daegu, Korea.

Founding Member of Society

Founding member of the Society for System Design and Process Science established in 1995.

Director of Research Lab

Founding director of the Intelligent Cyberspace Engineering Lab (ICEL), TAMU-C in 2000.
(<http://icel.tamu-commerce.edu>)

Conference Session Chairman/Organizer(Three most recent selected below)

The World Congress on Computer Science and Engineering, July 13-17, 2009, U.S.A.

The 13th World Conference on Integrated Design & Process Technology, 2009, Auburn, AL.

The World Conference on Integrated Design & Process Technology, June 3-8, 2007, Turkey

AWARDS

Outstanding Achievement Award, World Congress on Computer Science and Engineering (2009)

Nominated for Piper Professor Award, The State of Texas (2008)

Distinguished Service Award, Society for Design & Process Science (1996)

Texas Instruments Research Fellowship (1990-92)

SELECTED PUBLICATIONS (Most recent journals & proceedings selected below due to space limit)

- Sang C. Suh, M. Yang, Jack Yang, H. Arabnia “World Congress on Computer Science, Computer Engineering and Applied Computing **Keynote Lecture:** The impact of supercomputing in the next generation sequencing data mining”, World Congress on Computer Science, Computer Engineering and Applied Computing, July 13-17, 2009 Las Vegas, Nevada, USA. In Proceedings of The 2009 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA’09) , CSREA Press, 2009.
- Sang C. Suh, M. Yang, Jack Yang, H. Arabnia “**Plenary Keynote Lecture Note:** Next Generation Sequence Generation Sequencing Technologies Foster the New Initiatives of High-Performance Computing” In Proceedings of International Joint Conference on Bioinformatics, Systems Biology and Intelligent Computing”. Library of Congress Number 2009904091, ISBN 978-0-7695-3739-9, IEEE Computer Society Order Number P3739, BMS Part Number CFP0935H-PRT, IEEE Press 2009.
- Sang C. Suh, Jack Yang, M. Yang, H. Arabnia “Next Generation Sequence Analysis Using Genetic Algorithms on Multi-core” In Proceedings of International Joint Conference on Bioinformatics, Systems Biology and Intelligent Computing”, p.p. 190-194. Library of Congress Number 2009904091, ISBN 978-0-7695-3739-9, IEEE Computer Society Order Number P3739, BMS Part Number CFP0935H-PRT, IEEE Press 2009.
- Sang C. Suh and Nagendra Babu Pabbisetty, “A Conceptual Hierarchy-Based Approach For The Extraction of Medical Knowledge in Psychiatric Diseases”, Intelligent Engineering Systems Through Artificial Neural Networks Vol. 18, pp. 210-218 , ASME Press, New York, 2008, ISBN 0-7917-0268-5.
- Sang C. Suh and Madhavi Latha Valasingam, “The Role of Conceptual Hierarchies in the Diagnosis of Diabetes”, Proceedings of The 2008 International Conference on Data Mining (DMIN’08): The 2008 World Congress in Computer Science, Computer Engineering, & Applied Computing (Worldcom’08) July 14-17, Eds. H. Arabnia et. al., ISBN: 1-60132-044-2, C.S.R.E.A. Press, 8 pages, 2008.
- Sang C. Suh, Sam 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 and Archana Chada, “Knowledge-Base Trip Advisor: From Theory To Practice in Data Mining”, Proceedings of The 11th World Conference on Integrated Design and Process Technology (IDPT 2008), the Society for Design and Process Science & Software Engineering Society, 5 pages, Asia University, Taichung, Taiwan, June 1-6, 2008.
- Sang C. Suh, Sam I. Saffer, and V. Masarani, “Discovery of Useful Concepts Using The Hierarchy of Attributes and Concepts”, Intelligent Engineering Systems Through Artificial Neural Networks Vol. 17, pp. 303-309 , ASME Press, New York, 2007, ISBN 0-7918-0265-5.
- 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.