

# Curriculum Vitae

## Shushuang Man

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- **Education**

Ph.D. in Applied Mathematics, University of South Carolina, May 1999

M.S. in Computer Science, University of South Carolina, Aug. 1999

M.S. in Computational Mathematics, Shandong University, P.R. China, 1987

B.S. in Computational Mathematics, Shandong University, P.R. China, 1984

- **Working Experience**

**Dept. of Mathematics/Computer Science, Southwest Minnesota State University (SMSU)**

Aug. 2006 - Present, Full Professor

Aug. 2002 - July 2006, Associate Professor, tenured

Aug. 1999 - July 2002, Assistant Professor

**Dept. of Computer Science, Rutgers University Camden**

Jan 2011- May 2011, Part time instructor (during sabbatical leave)

**Policy Management System Incorporation (PMSC), Blythewood, South Carolina**

July 1998 - June 1999, System Analyst

- **Grant**

NSF Trusted Computing (NSF 01-160), grant number: CCR-0310571, PI at SMSU, \$42,462, 2003

MNSCU DARS (Minnesota State Colleges and Universities Degree Auditing Report System) Project, Co-PI, \$28K, 2004

Faculty Improvement Grants, four times, SMSU

- **Journal Publication**

S. Man, D. Hong, M. A. Palis, and J. V. Martin, "A computational model for signaling pathways in bounded small-world networks corresponding to brain size", *Journal of Neurocomputing*, Vol.74, Issue18, pp. 3793–3799, Nov. 2011

D. Hong and S. Man, "Signal propagation in small-world biological networks with weak noise", *Journal of Theoretical Biology*, Vol. 262, No. 2 pp. 370-380, 2010

D. Hong, W. M. Saidel, S. Man, J. V. Martin, "Extracellular noise-induced stochastic synchronization in heterogeneous quorum sensing network", *Journal of Theoretical Biology* Vol. 245 pp. 726 – 736, 2007

D. Hong and S. Man, "Analysis of Web search algorithm HITS", *International Journal of Foundation of Computer Science*, No. 4 pp. 649-662, 2004.

H. Wang , H. Dahle , R. Ewing , M. Espedal , R. Sharpley , S. Man, "An ELLAM scheme for advection-diffusion equations in two dimensions", *SIAM Journal on Scientific Computing*, Vo. 20, No. 6, pp. 2160-2194, 1999.

H.Wang , R. Ewing, G. Qin, S. Lyons, M. Al-Lawatia, S. Man, ``A family of Eulerian-Lagrangian localized adjoint methods for multi-dimensional advection-reaction equations", *Journal of Computational Physics*, Vo. 152, No. 1, pp649-675, 1999

- **Book Chapter**

W. Feng, S. Man and G. Hu, ``Markov Tree Prediction on Web Cache Prefetching", *Studies in Computational Intelligence*, Springer Berlin/Heidelberg, Vol. 209 pp. 105-120, 2009

- **Referenced Conference Proceeding**

W. Feng, P. O'Keefe and S. Man, "Modeling and practice on component based software design - a case study", *Proceedings of the 8th ACIS International Conference on Software Engineering, Artificial Intelligence, Networking, and Parallel/Distributed Computing (SNPD2007)*, Qingdao, China, July 30 - August 1, (2007), IEEE Computer Society Publications, Vol. 1, pp. 676—681..

D. Hong, D. Shain, S. Man, J. V. Martin, ``Development of Maximized Total Capillary Surface: the quarter power scaling law from developmental biology perspective", the *Proceedings of BIOCOMP*, Las Vegas, 2006

W. Feng, S. Man, ``QoS based caching scheme by page priority and popularity", the *Proceedings of the 19<sup>th</sup> international teletraffic Congress*, Beijing China, Sept., 2005.

W. Li, S. Man, Y. Zhang and D. Kazakos, `` Numerical Analysis for the Optimal Reserved Channel Numbers in Reserved Channel Scheme With Hybrid Revenue of Incomplete and Complete Calls", the *Proceedings of the international Conference on wireless Networks, Communications, and Mobil Computing, IEEE WirelessCom* , Hawaii June, 2005.

D. Hong, S. Man, B. Hawes and M. Mathews, ``A password scheme strongly resistant to spyware", *Proceedings of 2004's international conference on security and management*, pp. 94-100, Las Vergas NV, USA, June 2004.

S. Man, D. Hong and M. Mathews, ``A shoulder-surfing resistant graphical password scheme", *Proceedings of 2003's international conference on security and management*, Vol. I pp. 105-111, Las Vergas, June 2003.

W. Li, S. Man, Y. Zhang, D. Kazakos, ``The optimal reservation channel numbers in a reserved channel allocation scheme with linear revenue function of actual call connection time", *Proceeding of The International Conference on Telecommunications 2002*, Vol. 2, pp38-42, 2002.

H. Wang , R. Sharpley , S. Man, ``An ELLAM scheme for advection-diffusion equations in multi-dimensions", *Computational Methods in Water Resources XI*, pp99-106, Cancun, Mexico, 1996.