



Bo (Beth) Sun

Associate Professor
Computer Science

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Education:

BS (Computer Science), Wuhan University

MS (Computer Science), Lamar University

PhD (Modeling and Simulation), Old Dominion University

Research Expertise:

Data Visualization | Serious Game | VR/AR-based Simulation

For the past ten years, I have committed my research to develop visualizations, particularly simulation using Immersive Technologies and Computer Vision. My current research interests also include Data Visualization, Image Processing and Natural Language Animation.

Awards and honors:

Best presentation, Siemens Tech. to Bus. Post-doc Workshop on Technology, Innovation and Entrepreneurship 2008

Euro SIWzie award, 2005 European Simulation Interoperability Workshop

SIWzie award, 2005 Spring Simulation Interoperability Workshop

Member of:

IEEE (<https://www.ieee.org/index.html>)

NCWIT (<https://www.ncwit.org/>)

Recent Academic Projects:

Developed a visual tracking method to monitor eye movement in cognitive neuroscience using computer vision techniques.

Conducted visual analysis to find out possible reasons of a popular local bird in a wildlife preserve based on two large scale and multi-dimensional datasets on chemical release and meteorological information.

Developed serious game prototype to assess learning outcomes of higher education particularly for minority students.

Recent Publications:

Sun B, Xu W, Jessamy R, Ha S (2017) A Tableau Case Study On Visual Analysis To Explore Mystery At Wildlife Preserve. IEEE Visualization and Computer Graphics, IEEE VIS 2017 VAST Challenging, Phoenix, AZ, Oct 2017.

Sun B, Igbiriki R, Pere P, Edwards A (2016) Kizzle- An App For Learning. The 10th International Conference On Interactive Mobile Communication Technologies and Learning, IMCL2016, San Diego, CA, Oct 2016.

Sun B (2014) An Image Processing-Based Method For Quantification Of Microvasculature. The 2014 IEEE International Conference on Multimedia and Expo, Chengdu, China, July 2014 pp. 1-6.

Li J, Vadlamudi A, Chuang SH, Sun X, Sun B, McKenzie FD (2012) Prostate cancer region prediction by fusing results from MALDI SPECTRA PROCESSING AND TEXTURE ANALYSIS. Simulation: Transactions of the Society for Modeling and Simulation International. 88:1247-1259.