

## **RESUME OF YONGGAO YANG**

Ph.D., Associate Professor, Interim Department Head  
Computer Science Department  
Prairie View A&M University

### **Education Background**

#### **Undergraduate Institution**

Southwest Jiaotong University, China, Electrical Engineering Bachelor / 1984

#### **Graduate Institution**

Southwest Jiaotong University, China, Computer Science Master / 1987

Southwest Jiaotong University, China, Electrical Engineering Ph.D. /1997

George Mason University, USA, Information Technology Ph.D. / 2002

### **Work History**

**January 16, 2009 ~ Present:** Interim Department Head, Computer Science Department, Prairie View A&M University, Texas

**September 2008 ~ Present:** Associate Professor, Prairie View A&M University, Texas

**August 2002 ~ August 2008:** Assistant Professor, Prairie View A&M University, Texas

**September 1999 ~ July 2002:** Research Assistant, George Mason University, Virginia

**June ~ August 1999:** Internship, National Academy of Sciences, Washington DC

**March 1994 ~ August 1998:** Assistant Professor, Southwest Jiaotong University, China

### **Major Publications (Since 2005)**

- 1) Yonggao Yang, etc., "Nonlinear Projections and Magic Lenses: 3D View Deformation," *IEEE Computer Graphics & Applications*, Vol. 25, No. 1, Jan./Feb., 2005, pp.76-84.
- 2) Y. Yang, A. Lodgher, and S. Xing, "Bring Rigid Bodies to Life," *IEEE Potentials*, Vol. 26, No. 5, Sep./Oct., 2007, pp. 26-31.
- 3) Yonggao Yang, etc., "Reconstruct 3D Objects from 2D Boundaries," *IEEE Potentials*, Vol. 25, No. 6, November/December, 2006, pp. 8-13.
- 4) Yonggao Yang and Akhtar Lodgher, "Use 3D Graphics Learning Environment to Help Comprehend Non-Intuitive Concepts," *Computers in Education Journal*, Vol. XVI, No. 4, October/December, 2006, pp. 51-57.
- 5) Yonggao Yang, etc., "Blurry When Wet: Animating Raindrop Behavior," *IEEE Potentials*, August/September 2005, pp. 33-36.
- 6) Y. Yang and J. Lian, "A new sqrt(2)-subdivision scheme for arbitrary surface design", *Proc. of International Conference on Computer Graphics and Virtual Reality*, July 2008, pp 41-46.

- 7) J. Perkins, M. Hudson, and Y. Yang, "Developing a GIS-Based System for Analyzing Medical Transportation Activities," *Proc. of International Conference on Information & Knowledge Engineering*, July 2008, pp243-249.
- 8) Y. Yang, V. Soto, and A. Lodgher, "Raster to Scalable Vector Graphics Conversion," *Journal on Graphics, Vision and Image Processing (ICGST)*, Special Issue on Image Retrieval and Representation, March 2006.
- 9) W. Zhang and **Y. Yang**, "Texture Mapping With Vector Graphics: A Nested Mipmapping Solution," *International Conference on Computer Graphics and Virtual Reality (CGVR'06)*, 2006, pp. 97-103.
- 10) **Y. Yang** and X. Wang, "Nonlinear 3-D Motion Simulation Using Multi-sensor Data Fusion," *International Conference on Modeling, Simulation and Visualization Methods (MSV'06)*, 2006, pp. 56-62.
- 11) Y. Yang, V. Soto, K. Paick, and A. Lodgher, "Raster to Scalable Vector Graphics Conversion," *ICGST International Conference on Graphics, Vision and Image Processing (GVIP - 05)*, Dec. 2005., pp. 47-52.
- 12) X. Wang, X. Han, and **Y. Yang**, "A Web-Based 3D Environment for Teaching and Learning," *Proc. The 2005 Information Resources Management Association International Conference (2005 IRMA)*, San Diego, California, May 2005, pp. 715-717.

### **Major Research Projects (Since 2005)**

2007~present: "A Virtual Reality Infrastructure for Enhancing Undergraduate Math Teaching and Learning." Funded by the Department of Education (\$381,221). A five-year project starting from Oct. 1, 2007.

2008~present: "Feasibility and Applications of RFID Technologies to Support Right of Way Functions," Funded by TxDoT (\$78,697)

2008~present: "Asset Management for Safety and Operations", Funded by TxDoT (\$104,553)

2008~present: "Benchmarking and Improving Texas Rural Public Transportation Systems," Funded by the TxDoT (\$25,244); 2008~2009.

July 2007: Information Assurance Capacity Building Program (IACBP'2007), CyLab, Carnegie Mellon University, Pittsburgh, PA.

July 2007: CISCO Security Bootcamp, Pittsburgh, PA.

2006~2007: "Medical Transportation System", funded by TxDoT.