

Yu Cao

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Education

Ph.D. Candidate, Computer Science & Engineering, University of South Carolina, 2007–Present

Advisor: Dr. Song Wang, Associate Professor, <http://www.cse.sc.edu/~songwang/>

Expected graduation date: August, 2012

M.S., Applied Mathematics, Northeastern University, China, 2007

Advisor: Dr. Xiangde Zhang, Associate Professor, Department of Applied Mathematics, Northeastern University, China

B.S., Information & Computing Science, Northeastern University, China, 2003

Employment

Research Assistant, Computer Vision Lab, Department of Computer Science & Engineering, University of South Carolina, August 2008–present

Teaching Assistant, Department of Computer Science & Engineering, University of South Carolina, August 2007–July 2008

Research

Research Interests

2D/3D shape analysis, 2D/3D image segmentation, object detection and localization, 3D object reconstruction

Publications

Y. Cao, L. Ju, Q. Zou, C. Qu, S. Wang. A Multichannel Edge-Weighted Centroidal Voronoi Tessellation Algorithm for 3D Superalloy Image Segmentation, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Springs, CO, 2011

Y. Cao, Z. Zhang, I. Czogiel, I. Dryden, S. Wang. 2D Nonrigid Partial Shape Matching Using MCMC and Contour Subdivision, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Springs, CO, 2011

Z. Zhang, Y. Cao, D. Salvi, K. Oliver, J. Waggoner, S. Wang. Free-Shape Subwindow Search for Object Localization, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), San Francisco, CA, 2010

Teaching

Department of Computer Science & Engineering, University of South Carolina

CSCE 145, Algorithm Design I, Lab Instructor, Fall 2008

CSCE 101/102, Intro-Computer Concepts/Gen Application Program, Lab Monitor, Summer II 2008

CSCE 146, Algorithmic Design II, Lab Instructor, Spring 2008

CSCE 145, Algorithmic Design I, Lab Instructor, Fall 2007

Department of Applied Mathematics, Northeastern University, China

Digital Image Processing, Algebra, Stochastic Cryptology, Mathematics Modeling, Seminar Instructor, Nov. 2004–Dec. 2005

Professional Activities

IEEE Graduate Student Member, 2011

Reviewer for Elsevier, *Pattern Recognition*, 2011

Honors & Awards

Graduate Student Travel Grants Award, University of South Carolina, 2011

Doctoral Consortium Travel Grants Award, IEEE Computer Vision and Pattern Recognition Conference, 2011

Second prize of National Postgraduates Mathematical Contest In Modeling, China, 2005, 2006

Scholarship for outstanding postgraduates, Northeastern University, China, 2005, 2006

Scholarship for outstanding undergraduates, Northeastern University, China, 2001, 2002

Miscellaneous

Programming Skills: Proficient in C/C++, MATLAB, JAVA

Language Skills: Fluent in English, Chinese. Studied in Korean

Last updated: June 13, 2011