Zhiyong Huang (黄智勇)

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Expertise

- 3D graphics, animation, rendering, and visualization
- Human-computer/robot interface, parallel computing (GPU)
- Multimedia, data analytics, and machine learning

Experiences

- Assistant Dean (Industry Relations), Director (C-TReND Centre), NUS School of Computing, 2017-Preseant
- Deputy Director, NUS Business Analytics Centre, NUS Business School and School of Computing
- Senior Scientist, Department Head, Senior Manager, Institute for Infocomm Research (I²R), A*STAR, 2007-2017
- Assistant Professor, NUS School of Computing, 1997-2006

Education

- PhD, Computer Science, EPFL, 1997
- Master Degree, Computer Engineering, Tsinghua University, 1988
- Bachelor's Degree, Computer Engineering, Tsinghua University, 1986

Projects

- Co-PI, Capsule Endoscopy SI-Aided Diagnosis, AI SG 100E, Jan 2020- Jul 2021
- Co-PI, Development of a knowledge and data-driven satellite DEM improvement technique, AI SG 100E, Feb 2020- Aug 2021
- PI, Super Resolution of Images, Smiths Detection, 2020-2021
- PI, AI-based Automatic Classification of Crowdsourced Images, 2019-2021
- PI, A Blockchain-based Asset Tracking and Rights Management System for Additive Manufacturing Production Workflow, 2018-2019
- PI, Deep Learning for Recommender Systems, AISG, 2018-2019
- Co-PI, Robot Application Development and Operating Environment (RADOE), A*STAR Robotic Programme, September 2013 – August 2016
- PI, I²R iModel CORE project, April 2012 – March 2014
- Co-PI, Graphics Joint Lab, I2 R-SoC, NUS, April 2010 – July 2013
- PI, I²R ISGE project, P3DES, April 2007 – March 2010
- Co-PI, A*STAR SpADE: a Spatio-temporal Autonomic Database Engine for location-based services, School of Computing, NUS, April 2005 – December 2006
- PI, Stochastic Paintbrush Image Transformation, School of Computing, NUS, November 2000 – February 2005
- Co-PI, Watermarking of 3D Volume Data, School of Computing, NUS, May 2001 – April 2003
- PI, Reconstruction of 3-D Objects from Video Sequences, School of Computing, NUS, November 1998 – June 2002

Award

- FINALIST of World Technology Summit & Awards (Entertainment), 2010
- Bronze, National Science and Technology Progress Award, 1992
- Tsinghua 12.9 Distinguished Young Teacher Award, 1989