

Ming-Ze YUAN

Computer Graphics, Computer Vision, Machine Learning | Ph.D.

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🎓 EDUCATION

Sep. 2014 Present	University of Chinese Academy of Sciences (UCAS) , Beijing, P.R.China <ul style="list-style-type: none">> Ph.D. Candidate in Computer Science, Expected July 2019> Advisor : Prof. Shihong Xia
Sep. 2011	15th Research Institute of China Electronics Technology Group Corporation (CETC 15) , Beijing, P.R.China
Sep. 2014	<ul style="list-style-type: none">> M.S. in Computer Science> Advisor : Prof. Fuzhen Hao
Sep. 2007 Sep. 2011	University of Electronic Science and Technology of China (UESTC) , Chengdu, P.R.China <ul style="list-style-type: none">> B.Eng. in Computer Science

📖 PUBLICATIONS

JOURNAL

- J1. Temporal upsampling of depth maps using a hybrid camera**
Ming-Ze Yuan, Lin Gao, Hongbo Fu, and Shihong Xia.
IEEE Transactions on Visualization and Computer Graphics (TVCG), 2019
- J2. A survey on human performance capture and animation**
Shihong Xia, Lin Gao, Yukun Lai, Ming-Ze Yuan, and Jinxiang Chai
Journal of Computer Science and Technology, 32 (3), 536-554.
- J3. Facial Feature Points Tracking System and Simulation Analysis**
Ming-Ze Yuan, and Shihong Xia
Journal of System Simulation, 2018,30 (12),4618-4624

CONFERENCE

- C1. SF-Net : Learning scene flow from RGB-D images with CNNs**
Yi-Ling Qiao, Lin Gao, Yukun Lai, Fang-Lue Zhang, Ming-Ze Yuan and Shihong Xia
British Machine Vision Conference (BMVC) 2018
- C2. A Marker-less Motion Capture Method Combining Body Capture and Face Capture**
Zhiyong Wang, Congyi Wang, Zihao Zhang, Ming-Ze Yuan, Shihong Xia
Chinagraph 2018

👜 RESEARCH & ENGINEERING EXPERIENCE

Present May. 2014	Institute of Computing Technology (ICT), Chinese Academy of Sciences (CAS) , Beijing, P.R. China <i>Research Assistant</i> Advisors : Prof. Shihong Xia, Prof. Lin Gao <ul style="list-style-type: none">> Researched on temporal upsampling of depth maps> Researched on RGB-D scene flow methods using optimization and CNN based approach> Researched on 3D model deformation and registration> Developed face detection, alignment and recognition algorithm> Built a real-world RGB-D dataset with the goal to evaluation of depth temporal upsampling
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RGB-D Upsampling Scene Flow Optical Flow Geometry Registration Motion capture

May. 2014	CETC 15, Beijing, P.R. China
Sep. 2011	Research Assistant Supervisor : Prof. Fuzhen Hao <ul style="list-style-type: none"> > Developed 2D barcode coding and recognition method > Developed Enterprise Service Bus (ESB) for Enterprise Resource Planning (ERP) System > Researched on theoretical model of supply chain strategies <div>Barcode Encoding</div> <div>Enterprise Service Bus (ESB)</div>
May. 2011	UESTC, Chengdu, P.R. China
Sep. 2007	Research Assistant Supervisor : Prof. Guiduo Duan <ul style="list-style-type: none"> > Developed digital watermarking algorithm for verifying the authenticity of image > Developed embedded microsystem based on μC/OS-II and TI MSP430 <div>Image Processing</div> <div>Computer Architecture</div>

PATENTS

- Method and system of face animation generation driven by text voice, CN201510876078
- Method and system for deducing sudden event situation based on case, CN201510398451

HONORS AND AWARDS

- 2018 **The First-Class Prize of China Computer Federation (CCF) Science and Technology Award for Technical Invention, "Key Technology and Application of 3D Human Motion Modeling"**
- 2018 UCAS - E Funda Financial Technology Scholarship
- 2018 Pacemaker to Merit Student of UCAS
- 2015 Outstanding Volunteer of CCF

SKILLS

Programming	C++/C, Python, \LaTeX , Matlab, HTML, SQL, Java, JavaScript, Assembly
Development Tools	GCC, GDB, Vim, Visual studio, Eclipse, SVN, Git
Multimedia Tools	Blender, GIMP, Inkscape, Adobe Premiere/Encoder/Photoshop, Ffmpeg
Machine Learning Framework	Caffe, TensorFlow
Misc.	Computer Architecture, Principles of Operating System

REFERENCES

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