Yiguo Qiao

Curriculum Vitae

Department of Computer Science, University of Bath
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Work Experience

2019–now   **Research Associate**, *Department of Computer Science*, University of Bath, England.

Education

2011–2018   **Ph.D. at Xidian University**, *School of Artificial Intelligence*, Xi'an, China.
Doctor of Philosophy in Circuits and Systems
Dissertation: *"Depth Super-resolution and Virtual View Synthesis in 3D Stereoscopic Vision"*
Advisors: Prof. Licheng Jiao *(Fellow, IEEE)* and Prof. Jin Pan

2010–2011   **Master's degree at Xidian University**, *Key Laboratory of Intelligent Perception and Image Understanding of Ministry of Education*, Xi'an, China.
Master of Science in Pattern Recognition and Intelligent Systems
Advisors: Prof. Licheng Jiao *(Fellow, IEEE)* and Prof. Jin Pan

2006–2010   **Bachelor's degree at Xidian University**, *School of Electronic Engineering*, Xi'an, China.
Bachelor of Science in Automation
Dissertation: *"Research and Development of Integrated System of ERP and MES"*

Research Experience

2021-now   *Research on Unsupervised Motion Retargetting in Motion Capture*, **Researcher**, University of Bath.

2019-2021   *Development of Rheumatoid Arthritis Flare Profiler*, **Researcher**, University of Bath, healthtech company Living With, and Royal United Hospitals Bath NHS Foundation Trust (RUH).

2012-2014   *Research on Elimination of Coding Effect and Generation of High Quality Binocular View in 3DTV*, **Co-investigator**, Xidian University.

2012-2013   *Research on Video Processing Technologies in 3DTV*, **Co-investigator**, Xidian University and Huawei Technologies Co. Ltd.

Publications

Peer-reviewed publications

2021   **Yiguo Qiao**, Licheng Jiao, Wenbin Li, Christian Richardt and Darren Cosker, *"Fast, High-quality Hierarchical Depth-map Super-resolution"*, **ACM International Conference on Multimedia (ACM MM), 2021**. *(Full paper)*.

2020   **Yiguo Qiao**, Licheng Jiao, Xu Tang, Wenbin Li and Darren Cosker, "*High-quality Depth Up-sampling via A Supervised Classification Guided MRF Model*", **Pattern Recognition Letters**.

2019   **Yiguo Qiao**, Licheng Jiao, Shuyuan Yang, Biao Hou and Jie Feng, "*Color Correction and Depth-Based Hierarchical Hole Filling in Free Viewpoint Generation*", **IEEE Transactions on Broadcasting**.

2018   **Yiguo Qiao**, Licheng Jiao, Shuyuan Yang and Biao Hou, "*A Novel Segmentation Based Depth Map Up-sampling*", **IEEE Transactions on Multimedia**.

       Yiguo Qiao, Licheng Jiao and Biao Hou, "*High-quality Depth Up-sampling Based on Multi-scale SLIC*", **Electronics Letters**.

2014   **Yiguo Qiao** and Cheolkon Jung, "*Dictionary Based Hole Filling with Assistance of Depth*", **Proc. IEEE Intl. Conf. on Multimedia and Expo (ICME), 2014**. **(Full paper)**.

Papers under review

1. Anonymous Author(s), "*The relationship between grip strength and RAPID3 (Routine Assessment of Patient Index Data 3) in patients with rheumatoid arthritis and short-term prediction of disease condition using LSTM (Long Short Term Memory) network*".

2. Anonymous Author(s), "*Joint segmentation on thermal image and relationship analysis between hand temperature and RAPID3 for follow-up of Rheumatoid Arthritis*".

Patents

1. L. Jiao, **Y. Qiao**, et al., "*A Color Correction based Free Viewpoint Generation Method*", China, 201610334492.7[P], authorized in 2018-03-13.

2. C. Jung, L. Jiao, F. Xue, T. Sun, **Y. Qiao**, "*A Parallax Minimal Perceptible Model based Stereo Video Coding Method*", China, 201410240167.5[P], authorized in 2018-05-22.

3. L. Jiao, **Y. Qiao**, et al., "*A minimum joint distance based depth map up-sampling method*", China, 201610334077.1[P], authorized in 2019-04-23.

Technical Skills

Programming   Python, MATLAB, HTML, css, C/C++
Others   LaTeX, Lyx, TeXworks, SPSS, Blender, Unity, Docker, Microsoft Office Tools, Mendeley

Languages

Chinese (native), English (intermediate)

Leisure and Entertainment

Singing, Playing Ukulele and Piano, Traveling, etc.