PhD and Post-Doc/RAP Researcher Opening  
NSF I/UCRC Center for Big Learning (CBL)  
University of Missouri, Kansas City, USA  

Opening Description:

With recent new funding from NSF, AFOSR and Industry, the Multimedia Computing & Communication (MC²) Lab at UMKC now has 2 PhD openings with full financial support (including tuition, health insurance, and stipends) for Fall 2021 starting time to work in the following topics:

- Future Video Codec (FVC) research, new coding tools, especially deep learning techniques in new intra-prediction, super-resolving prediction and deblocking filtering solutions. Advanced new motion model and compensation tools.
- Immersive visual communication research, point cloud, light field and 360 video capture, compression and very low latency communication. Computational discrete geometry and graph signal processing techniques in point cloud compression; Deep and traditional methods for light field compression and super-resolution.
- Deep convolutional network compression and acceleration. Light weight inference time engine that is friendly for embedded system for visual signal compression, recognition and re-identification.
- Robust object re-identification against large scale data base, new key point features with depth info, hyper-spectral imaging, high efficiency local feature aggregation and hashing. Differential key points deep learning for low resolution/quality image recognition. End-to-end imaging pipeline and vision task joint learning.

Candidates Expectation:

Ideal candidates should have MS degree in CS/EE, and have solid programming skills in C/C++, Python and Matlab. Desired course work including Linear Algebra, Probability & Statistics, Numerical Optimization. Self-motivating and have a strong desire to do cutting edge research and publish.

Senior candidates with solid publication records for Post-Doc Researcher/Research Assistant Professor applicants are also welcome.

Contact Info:

Interested students please send me a short CV, a copy of your transcript, publications if any, and GRE/TOEFL/IELTS scores (exceptional strong candidates’ GRE requirement can be waived) to:

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More details of my background and research can be found at: http://l.web.umkc.edu/lizhu