Yu Wang
https://www.linkedin.com/in/imywang
Email : ywang.purdue@gmail.com
Mobile : +1-219-670-9808

Education

- **Purdue University** — West Lafayette, IN
  Doctor of Philosophy (PhD), Electrical and Computer Engineering — *Aug. 2012 – Aug. 2017*
- **Nanjing University of Aeronautics and Astronautics** — Nanjing, China
  Bachelor, Engineering in Electrical and Electronics — *Sept. 2008 – July. 2012*

Experience

- **NVIDIA** — Santa Clara, CA
  Deep Learning Software Engineer — *July 2017 - Present*
  - **NVIDIA Metropolis**: NVIDIA Metropolis is the foundation of the AI Cityan edge-to-cloud platform that can turn video into valuable insights. Driven by powerful products like NVIDIA Jetson and NVIDIA Tesla, it delivers intelligent video analytics for a wide range of applications both at the edge and in the datacenter.
  - **NVIDIA Deep Learning SDK**: The NVIDIA Deep Learning SDK provides powerful tools and libraries for designing and deploying GPU-accelerated deep learning applications. It includes libraries for deep learning primitives, inference, video analytics, linear algebra, sparse matrices, and multi-GPU communications.
- **Video and Image Processing Laboratory (VIPER)** — Purdue University
  Research Assistant — *May 2014 - June 2017*
  - **Research Assistant**: Developed backend image processing algorithms for Technology Assisted Dietary Assessment (TADA) system; Implemented a deep learning based food recognition pipeline.
  - **TADA Android Developer**: Developed an Android application for the TADA project including features like intuitive UI, background image uploading, crash report, onboard image analysis; Managed the TADA backend servers.
- **Purdue University** — West Lafayette, IN
  Teaching Assistant — *Aug 2013 - May 2014*
  - **Teaching Assistant - ECE202**: Helped the students in ECE202 (Linear Circuit II) to learn the materials; Taught the basics of Matlab in solving circuit problems.
  - **Teaching Assistant - Engineering Projects In Community Service (EPICS)**: Managed three undergraduate projects, ie. GLASS, APPS and AAEE; Gave lectures on Android programming.

Publications

1. **Y. Wang**, Y. He, F. Zhu, C. Boushey, E. J. Delp, "Context Based Image Analysis With Application in Dietary Assessment and Evaluation", Multimedia Tools and Applications, accepted, 2017
2. **Y. Wang**, Z. Zhu, C. Boushey, E. J. Delp, "Weakly Supervised Food Image Segmentation Using Class Activation Map", IEEE International Conference on Image Processing, September, 2017
3. D. Guera, **Y. Wang**, L. Bondi, P. Bestagini, S. Tubaro, E. J. Delp, "A Counter-Forensic Method for CNN-Based Camera Model Identification", IEEE Conference on Computer Vision and Pattern Recognition Workshops, July, 2017
4. **Y. Wang**, J. Ribera, C. Liu, S. Yarlagadda, Z. Zhu, "Pill Recognition Using Minimal Labeled Data", IEEE Conference on Multimedia Big Data, April, 2017
5. **Y. Wang**, S. Fang, C. Liu, F. Zhu, C. Boushey, E.J. Delp,"Food Image Analysis: Big Data Problem You Can Eat!", Asilomar Conference on Signals, Systems, and Computers, November, 2016
6. **Y. Wang**, C. Liu, F. Zhu, C. Boushey, E. J. Delp, "Efficient Superpixel Based Segmentation For Food Image Analysis", IEEE Conference on Image Processing, September 2016
7. **Y. Wang**, Y. He, F. Zhu, C. Boushey, E. J. Delp, "The use of Temporal Information In Food Image Analysis", 18th International Conference on Image Analysis and Processing, September 2015

8. **Y. Wang**, C. Xu, C. Boushey, F. Zhu, and E. J. Delp, "Mobile image based color correction using deblurring", IS&T/SPIE Electronic Imaging, pp. 940107-940107. February 2015

9. **Y. Wang**, Z. Cheng, J. Hou, D. Cai, B. Chen, "Quality Inspection Improvement for Cheese Packaging Using Machine Vision", IEEE Conference on Electro/Information Technology, May 2012

Projects

- **Hackathon - Boilermake 2014**: **Top award winner - ranked top 5 among 150+ projects**; developed an first person view AR Android game called Duck Robot Hunt.
- **TADA Android Application v2**: Reimplemented the TADA application using higher API; Improved the existing application by introducing a better UI and faster image management.

Miscellaneous

- **Featured Courses**: Model Based Image Processing, Computer Vision, Statistical Machine Learning, Pattern Recognition, Digital Video Processing
- **Programming Languages**: Python, C, Java, PostgreSQL, MATLAB, HTML, Swift
- **Mobile Development**: Android and iOS