

Xiaoliang Wang

CONTACT INFORMATION

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EDUCATION

Binghamton University, State University of New York, Binghamton, New York, USA

Ph.D. in Electrical Engineering, 2018

- Advisor: Zhanpeng Jin

Tongji University, Shanghai, China

M.S. in Electrical Engineering, 2009

- Advisor: Tao Lin

Tongji University, Shanghai, China

B.S. in Electrical Engineering, with highest honor, 2006

ACADEMIC EXPERIENCE

Virginia State University, Petersburg, Virginia, USA

Assistant Professor

2018 - present

Binghamton University, State University of New York, Binghamton, New York, USA

Teaching Assistant

2013

PUBLICATIONS

Refereed Journal Publications

Xiaoliang Wang, Zhanpeng Jin, “An Overview of Mobile Cloud Computing for Pervasive Healthcare,” *IEEE Access*, vol. 7, no. 1, pp. 66774-66791, 2019.

Wei-Bang Chen, Benjamin Standfield, Song Gao, Yongjin Lu, **Xiaoliang Wang**, Zimmerman Ben, “A Fully Automated Porosity Measure for Thermal Barrier Coating Images,” *International Journal of Multimedia Data Engineering and Management (IJMDEM)*, vol. 9, no. 4, 2018.

Xiaoliang Wang, Qiong Gui, Bingwei Liu, Zhanpeng Jin, and Yu Chen, “Enabling Smart Personalized Healthcare: a Hybrid Mobile-Cloud Approach for ECG Telemonitoring,” *IEEE Journal of Biomedical and Health Informatics (JBHI)*, vol. 18, no. 3, pp. 739-745, May 2014.

Xiaoliang Wang, Kailun Zhou and Tao Lin, “Design of H.264 Double Slice Decoder”, *Journal of Cable Television Technology*, pp. 103-105, December 2008.

Refereed Conference and Workshop Publications

Xiaoliang Wang, Yongjin Lu, Wei-Bang Chen, “Promote Retinal Lesion Detection for Diabetic Retinopathy Stage Classification,” in *2020 IEEE Conference on Multimedia Information Processing and Retrieval (MIPR)*. IEEE, 2020.

Benjamin Standfield, Wei-Bang Chen, Yujuan Wang, Yongjin Lu, Ahmed F. Abdelzaher, **Xiaoliang Wang**, Xin-Guang Yang, “Using Convolutional Neural Networks to Detect and Extract Retinal

Blood Vessels in Fundoscopic Images,” in *Proceedings of 2019 IEEE Conference on Multimedia Information Processing and Retrieval (MIPR)*. IEEE, 2019, pp. 222-227. (acceptance rate=19.3%)

Xiaoliang Wang, Peng Cheng, Xinchuan Liu, Benedict Uzochukwu, “Fast and Accurate, Convolutional Neural Network based Approach for Object Detection from UAV,” in *Proceedings of IECON 2018-44th Annual Conference of the IEEE Industrial Electronics Society*. IEEE, 2018, pp. 3171-3175.

Xiaoliang Wang, Yongjin Lu, Yujuan Wang, Wei-Bang Chen, “Diabetic Retinopathy Stage Classification Using Convolutional Neural Networks,” in *Proceedings of 2018 IEEE International Conference on Information Reuse and Integration (IRI)*. IEEE, 2018, pp. 465-471.

Xiaoliang Wang, Peng Cheng, Xinchuan Liu and Benedict Uzochukwu, “Focal Loss Dense Detector for Vehicle Surveillance,” in *Proceedings of 2018 International Conference on Intelligent Systems and Computer Vision (ISCV)*. IEEE, 2018, pp. 1-5.

Xiaoliang Wang, Wei Wang and Zhanpeng Jin, “Context-Aware, Reinforcement Learning-Based Mobile Cloud Computing for Telemonitoring,” in *Proceedings of 2018 IEEE EMBS International Conference on Biomedical and Health Informatics (BHI)*. IEEE, 2018, pp. 426-429.

Xiaoliang Wang, Wenyao Xu and Zhanpeng Jin, “A Hidden Markov Model Based Dynamic Scheduling Approach for Mobile Cloud Health Monitoring,” in *Proceedings of 2017 IEEE EMBS International Conference on Biomedical and Health Informatics (BHI)*. IEEE, 2017, pp. 273-276. (acceptance rate=14% for oral presentation)

Zhanpeng Jin, **Xiaoliang Wang**, Qiong Gui, Bingwei Liu, and Sejun Song, “Improving Diagnostic Accuracy Using Multiparameter Patient Monitoring Based on Data Fusion in the Cloud,” in *Future Information Technology*. Springer, 2014, pp. 473-476.

Qiong Gui, **Xiaoliang Wang**, Bingwei Liu, Zhanpeng Jin, and Yu Chen, “Finding Needles in a Haystack: Reducing False Alarm Rate Using Telemedicine Mobile Cloud,” in *Proceedings of 2013 IEEE International Conference on Healthcare Informatics*. IEEE, 2013, pp. 541-544.

Xiaoliang Wang, Qiong Gui, Bingwei Liu, Yu Chen, and Zhanpeng Jin, “Leveraging Mobile Cloud for Telemedicine: A Performance Study in Medical Monitoring,” in *Proceedings of 2013 39th Annual Northeast Bioengineering Conference*. IEEE, 2013, pp. 49-50.

PROFESSIONAL EXPERIENCE

Vanteon Corporation, Fairport, New York, USA

Software Engineer Intern

2015

SUNY Research Foundation (sponsored by Xerox Research Center Webster), Webster, New York, USA

Research Associate/Assistant

2014

Actions Semiconductor, Inc., Shanghai, China

Software Engineer

2010 - 2012

Mavrix Technology, Inc., Shanghai, China

Software Engineer

2009 - 2010

Institute of Very Large Scale Integration of Tongji University, Shanghai, China

Research Assistant

2007 - 2009

PROFESSIONAL
SERVICE

Technical Program Committee:

TPC Member, IEEE Workshop on Machine Learning and Artificial Intelligence for Multimedia Creation, 2018

Reviewers for:

- Journals:
 - Computers in Biology and Medicine
 - BioMedical Engineering Online
 - Computers and Electrical Engineering
 - IEEE Transactions on Industrial Informatics
 - IET Healthcare Technology Letters
 - MDPI Sensors
 - MDPI Electronics
 - International Journal of Internet Technology and Secured Transactions (IJITST)
 - Biomedical Engineering/Biomedizinische Technik (BMT)
- Conferences:
 - IEEE/CAS-EMB Biomedical Circuits and Systems Conference (BioCAS)
 - International Conference on Biomedical and Health Informatics (BHI)
 - International Conference on Wearable and Implantable Body Sensor Networks (BSN)
 - International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)
 - IEEE Signal Processing in Medicine and Biology Symposium (SPMB)
 - IEEE International Conference on Consumer Electronics (ICCE)