

Xiaoliang Wang

CONTACT INFORMATION

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Virginia State University
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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

AWARDS

DoD Research and Education Program for HBCU/MI Equipment Award

2019

VSU Provost Academic Travel Award

2018

PUBLICATIONS

Refereed Journals

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 Proceedings

Xiaoliang Wang, Yongjin Lu, Wei-Bang Chen, “Promote Retinal Lesion Detection for Diabetic

Retinopathy Stage Classification,” in *Proceedings of 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, The 2nd International Conference on Urban Intelligence and Applications, 2020
- 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)