

## **Dr. Yonghui Wang**

### **Education**

- Ph.D., Computer Engineering, Mississippi State University, USA, December 2013

### **Academic experience**

- Prairie View A&M University; Assistant Professor; 2018-present; Full time

### **Non-academic experience**

- IT Specialist at IBM China, Beijing China. 1999.
- Research Engineer at the 41st Electrical Research Institute, Bengbu, China. 1993-1996.

### **Certifications or professional registrations**

- None

### **Current membership in professional organizations**

- IEEE Senior Member
- ACM Member
- ASEE Member

### **Honors and awards**

- DoEd-MSEIP: Institutional Program: Enhancing Evidence-Based Pedagogies with Maker Culture in STEM Education, PI, 2018-2021, \$676,238
- NSF CC\*: Network Design: Improve Network on Campus for Research and Education in Agriculture, Science, and Engineering at Prairie View A&M University, Co-PI, 2018-2020, \$515,964
- ONR: Vertical Integration of Information for Battlespace Awareness and Prediction: A Big Data Analytics Approach, Co-PI, 2016-2019, \$375,000
- NSF HBCU-UP-RIA: Advancing Research on Data Analysis with High Performance Computing, PI, 2014-2020, \$238,968
- NSF HBCU-UP-TIP: Enriching Computing Curricula through HPC Teaching and Research, Co-PI, 2013-2020, \$479,721

### **Service activities (within and outside of the institution)**

- University Faculty Senate, 2016-2019
- Member of College Curriculum Committee, Spring 2009 to present
- Reviewer for IEEE Journals and Conferences, Fall 2004 to present

### **Most important publication and presentations from the past five years**

- Y. Hu, Z. Huang, L. Wang, Y. Wang, Y. Xu, and S. Liu, "Traffic Sign Detection Method Using Multi-Color Space Fusion," *Pattern Recognition*, submitted.
- S. Cui, Y. Wang, "Engineering Applications in Precision Agriculture," *The Technology Interface International Journal*, 2020, to appear.
- S. Cui, Y. Zhou, Y. Wang, and L. Zhai, "Underwater Object Detection Using Deep Learning," *Hindawi: Applied Computational Intelligence and Soft Computing*, article ID 3738108, 2020, to appear.
- M. Oteniya, S. Cui, Y. Wang, "Cybersecurity Challenges in Industry," *World Journal of Engineering research and Technology (WJERT)*, vol. 5, issue 4, July 2019.
- M. N. O. Sadiku, Y. Wang, S. Cui, S. M. Musa, "Evolutionary Computing," *International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE)*, vol. 9, No. 5, pp. 81-83, May 2019.
- M. N. O. Sadiku, S. Cui, Y. Wang, S. M. Musa, "Internet of Energy," *International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE)*, vol. 9, No. 5, pp. 78-80, May 2019.
- Y. Wang, S. Cui, W. Zhan, and B. Yalvac, "Promoting Student-Centered Learning through Maker Culture Cultivation," *ASEE 127<sup>th</sup> Annual Conference & Exposition*, 2020, Montreal, Quebec, Canada, June 21-24, 2020, accepted.
- W. Zhan, Y. Wang, S. Cui, and B. Yalvac, "Actively Engaging Project Based Learning through a Mini Maker Faire in an Engineering Technology Program," *ASEE 127<sup>th</sup> Annual Conference & Exposition*, 2020, Montreal, Quebec, Canada, June 21-24, 2020, accepted.
- X. Chen, Y. Wang, L. Wang and J. Yu, "Speaker Recognition Method Based on Statistical Features of Spectrograms and CNN," *CSAE 2019: Proceedings of the 3<sup>rd</sup> International Conference on Computer Science and Application Engineering*, Sanya, China, October 22-24, 2019.
- S. Cui, Y. Wang, and O. Ekwonah, "Keystroke Dynamics on User Authentication," *The 4<sup>th</sup> International Conference on Cybernetics (CYBCONF)*, Beijing, China, July 5-7, 2019.
- Y. Zhou, S. Cui, and Y. Wang, "Development of Machine learning Based Recommendation Engine for Embedded Programmer," *The 9<sup>th</sup> IEEE International Conference on Electronics Information and Emergency Communication (ICEIEC 2019)*, Beijing, China, July 12-14, 2019.
- Y. Wang, S. Cui, W. Zhan, and B. Yalvac, "Cultivating the Maker Culture through Evidence-Based Pedagogies," *ASEE 126<sup>th</sup> Annual Conference & Exposition*, 2019, Tampa, FL, June 16-19, 2019.

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### **Most recent professional development activities**

- US Department of Education PI Conference, Washington, DC, July 28-30, 2019
- Data Compression Conference, March 26-29, 2019
- QEM NSF INCLUDES Summit, Baltimore, MD, March 7-9, 2019
- International Conference for High Performance Computing, Networking, Storage, and Analysis, November 11-16, 2018

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2018 UNCF HBCU Innovation Summit, October 10-13, 2018