

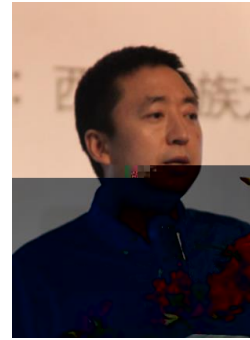
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Academic Qualification:

Ph.D. in Information and Communication Engineering, University of Electronic Science and Technology of China, 2011.

M.S. in Institute of Microcomputer, University of Electronic Science and Technology of China, 1991.

B.S. in Computer System Structure and Software Engineering, Beijing University of Aeronautics and Astronautics, China, 1988.

Teaching Area

Computer Network

Research Area

Computer Network

Working Experience

- | | |
|-------------------|---|
| 2020.11 - Present | Professor/Doctoral Supervisor, International Institute for Next Generation Internet, Macau University of Science and Technology, Macau. |
| 2020.06 - Present | Director of Sichuan Engineering Research Center for Cloud and Network Superfusion |
| 2011.09 - Present | Professor/Doctoral Supervisor, University of Electronic Science and Technology of China |
| 2006.06 - Present | Professor, University of Electronic Science and Technology of China |

Academic Publication (selected)

- [1] Rajesh Kumar; Abdullah Aman Khan; Jay Kumar; Zakria; Noorbakhsh Amiri Golilarz; Simin Zhang; Yang Ting; Chengyu Zheng; **Wenyong Wang**, Blockchain Federated Learning and Deep Learning Models for COVID-19 Detection Using CT Imaging. *IEEE Sensors Journal*, 2021,21(14).
- [2] S. Zou, W. **Wang**, W. Ni, L. Wang and Y. L. Tang. Efficient Orchestration of Virtualization Resource in RAN Based on Chemical Reaction Optimization and Q-learning. *IEEE Internet of Things Journal*, doi: 10.1109/JIOT.2021.3098331.
- [3] Zhou, K., **Wang, W***, Hu, F., Deng, K. Application of Improved Asynchronous Advantage Actor Critic Reinforcement Learning Model on Anomaly Detection. *Entropy*, 2021,23,274.
- [4] Kumar, R., **Wang, W.Y.**, Kumar, J., Yang, T., Ali, I.. An integration of block chain and AI for secure data sharing and detection of CT images for the hospitals. *Computerized Medical Imaging and Graphics*, 2021,87,101812.

- [5] Zhou,Kun;**Wang,Wenyong**;Hu,Teng;Deng,Kai. Time Series Forecasting and Classification Models Based on Recurrent with Attention Mechanism and Generative Adversarial Networks. IEEE Sensors Journal,2020,24:7211.
- [6] XiangY,HuangS,LiM,LiJ,**WangW***. Rear-End Collision Avoidance-Based on Multi-Channel Detection. IEEE Transactions on Intelligent Transportation Systems, 2020, 21(8):3525-3535.
- [7] Huang,L.,Ran,J.,**Wang,W.**,Yang,T.,Xiang,Y.. A multi-channel anomaly detection method with feature selection and multi-scale analysis. Computer Networks,2020,185,107645.
- [8] Zhou,K.,**Wang,W.**,Wu,C.,Hu,T..Practical evaluation of encrypted traffic classification based on a combined method of entropy estimation and neural networks. ETRI Journal, 2020, 42(3).
- [9] LiJ,XiangY,FangJ,**WangW***,PiY. Research on multiple sensors vehicle detection with EMD-based denoising. IEEE Internet of Things Journal,2019,6(4):6262-6270.
- EMD for rain fall prediction.Applied Soft Computing,2018,73.
- [11] Xiang, Y.,Ran,J.,Huang,L.,Yang,C.,**Wang,W.**.(2019).A Traffic Anomaly Detection Method based on Multi-scale Decomposition and Multi-Channel Detector. 2019 ACM/IEEE Symposium on Architectures for Networking and Communications Systems (ANCS) ACM 2019

training set for Support Vector Machine. *Knowledge-Based Systems*,2017,116(Jan.15):58-73.

- [20] 2016,S1:48-52.
- [21] ,2017,44(11):59-63.
- [22] ,2016,014(002):270-275,281.
- [23] 044(0z1):48-52.
- [24] Xiang,Y.,Wang,X.,He,L.,**Wang,W.**,Moran,W..Spatial-temporal analysis of environmental data of north Beijing district using Hilbert-Huang transform.*PLoS One*,2016,11(12),e0167662.
- [25] LiuC,**WangW***,TuG,etal.A new Centroid-Based Classification model for text categorization.*Knowledge-Based Systems*,2017,136(Nov.15):15-26.
- [26] Xiang,Y.,Xuan,Z.,Zhang,J.,Yang,T.,**Wang,W.**.. Design and implementation of intelligent field monitoring and irrigation system for Radix Ophiopogonis. *Journal of Diabetes Science & Technology*,2015,8(6):1241-1242.
- [27] Zhang,J.,Tang,Y.,Jun,Z.,**Wang,W.**.. A layer-based algorithm for the construction of connected dominating set in WSNs. *International Journal of Autonomous Adaptive Communications Systems*,2015,8(2/3):320-331.
- [28] 2014,43(001):82-87.
- [29] ,2013,S1:268-275.
- [30] Zou,S.,**Wang,W.**,Wang,W.. A routing algorithm on delay-tolerant of wireless sensor network based on the node selfishness. *EURASIP Journal on Wireless Communications Networking*,2013.
- [31] Tang,Y.,Zhang,J.,**Wang,W.**,Xiang,Y.. Forwarding set based distributed algorithm for connected dominating set in WSN. *Sensor Letters*,2012,10(8):1918-1924.
- [32] Jun,Zhang, Yu,Xiang, Xiaojuan, Liu, **Wenyong, Wang**, et al. An energy-efficient distributed algorithm for virtual backbone construction with cellular structure in WSN. *International Journal of Distributed Sensor Networks*,2012,8(12).
- [33] * ,2010,38(10):2441-2446.