

# Prof. Wang Wenyong

International Institute for Next Generation Internet

Office: N401

Tel: +853-68679217

E-mail: wywang@must.edu.mo



## 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

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|-------------------|---|
| 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.
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- [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.
- [10] XiangY,GouL,HeL,XiaS,**WangW\***.A SVR-ANN combined model based on ensemble 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.
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- [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.
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- [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).
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