

# 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

- |                   |   |
|-------------------|---|
| 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.
- [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.
- [12]

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.