**Online kernel learning and Intelligent networked systems**

Overview:

It is well known that dynamics plays an important role in the processing of information in the brain. With the development of automation and wireless communication technology, the data acquisition, data processing, data transmission, data control and data storage are not convenient and fast, but safe and reliable in complicated network. Combining distributed computing, computer science, automatic control theory, wireless sensor, and microelectronics manufacturing,

intelligent network is a kind of large-scale distributed network systems, which is the integration of data-aware, intelligent learning and wireless data communication. There are many kinds of intelligent networks, which mainly include wireless sensor network, cognitive network sensing, cognitive radio network, cognitive radar, smart grid, multi-robot network and so on. Intelligent network is an emerging mutual interdisciplinary, which not involves machine learning, artificial intelligence, sensor networks, cognitive radio, pattern recognition and optimization theory, but has very high application prospect and research value.

Topics (including, but not restricted to, the following):

1. Recurrent neural networks;
2. Sensor Networks and Internet of Things (IoT)
3. Computer Control and Cyber-Physical Systems
4. Pattern Classification
5. Reinforcement learning
6. Machine learning
7. Social cognition
8. Decision making
9. Data mining
10. Social networks
11. Big data analysis
12. Information security

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Fuxiao Tan received the B. Eng. degree in automation from Hefei University of Technology, China in 1997, and the Ph. D. degree in control theory and control engineering from Yanshan University, China in 2009. From 2011 to 2013, he engaged in postdoctoral research work in Anhui University, China. He is currently Professor in Fuyang Normal University. He has published over 40 journal and conference papers. His research interests include multi-agent systems, online sparse algorithm, kernel-based adaptive dynamic programming, intelligent networked systems, and distributed optimization.

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JING YAN received the B.Eng. degree in automation from Henan University, Kaifeng, China, in 2008, and the Ph.D. degree in control theory and control engineering from Yanshan University, Qinhuangdao, China, in 2014. In 2014, he was a research assistant with the Key Laboratory of System Control and Information Processing, Ministry of Education, Shanghai Jiaotong University, Shanghai, China. From Jan. 2016 to Sep. 2016, he was a post-doc with University of North Texas, Texas, US. From Oct. 2016 to Jan. 2017, he was a research associate with University of Texas at Arlington, Arlington, US. He is currently an Associate Professor with Yanshan University. His research interests cover in underwater acoustic sensor networks, cyberphysical systems, multiagent systems, and networked teleoperation systems. He has authored over 20 referred international journal and conference papers. He is the inventor of two patents. He was a recipient of the competitive National Graduate Scholarship from the Ministry of Education of China in 2012. He received the Excellence Paper Award from the National Doctoral Academic Forum of System Control and Information Processing in 2012, and the Science and Technology Innovation Award from Yanshan University in 2013. In 2015, he received the excellent doctoral dissertations of Heibei Province, China.

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