

Title: Intelligent Systems Leveraged on Cognition Pattern in Education

Abstract: Intelligent Systems in Education should build on algorithms on cognition pattern because of the fact that one aspect of education is on teaching knowledge and building cognition pattern. In the recent years, cognition pattern has been becoming an active research area since researchers have expanded their interest from object pattern to thinking pattern. As a result, cognitive algorithm becomes a frequently used term. This talk first introduces the general approaches of object pattern recognition. Then it discusses cognition pattern and its characteristics. Finally, it presents various Intelligent Systems in Education.

Professor Yu Xinguo is the dean of CCNU Wollongong Joint Institute and a professor of National Engineering Research Center for E-Learning at Central China Normal University, Wuhan, China, senior member of both IEEE and ACM, and an adjunct professor of University of Wollongong, Australia. He is the chair of Hubei Society of Artificial Intelligence in Research and Education. He received B.Sc. degree in Mathematics from Wuhan University of Technology, M. Eng degree from Huazhong University of Science and Technology, another M. Eng. degree from Nanyang Technological University, Singapore and Ph.D. degree in Computer Science from National University of Singapore. His current research mainly focuses on intelligent educational technology, educational robotics, multimedia analysis, computer vision, and machine learning. He has published over 100 research papers. He is an Associate Editor of International Journal of Digital Crime and Forensics, Guest Editor of several SCI journals, currently a guest editor of special issue: Humanized Computing and Reasoning in Teaching and Learning (https://www.techscience.com/CMES/special_detail/hcrtl). He was general chairs or program chairs for more than 10 international conferences. In 2021 and 2022, he is general chair of International Conference International Conference on Teaching, Assessment, and Learning for Engineering, International Conference on Artificial Intelligence in Education Technology, and International Conference on Management Engineering, Software Engineering and Service Sciences; he is program chair of 4th International Conference on Pattern Recognition and Intelligent Systems.