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Guoqiang Zhong received his Ph.D. from Institute of Automation, Chinese Academy of Sciences (CASIA), Beijing, China, in 2011. Between October 2011 and July 2013, he is a Postdoctoral Fellow at University of Quebec, Montreal, Canada. Since March 2014, he has been an associate professor, and then a full professor, at Ocean University of China, Qingdao, China. He has published 4 books, 4 book chapters and more than 80 technical papers in the areas of artificial intelligence, pattern recognition, machine learning and data mining. He has served as PC member/reviewer for many international conferences and journals, such as IEEE TNNLS, IEEE TKDE, IEEE TCSVT, Pattern Recognition, AAAI, AISTATS and ICPR. He has been awarded outstanding reviewer by several journals, such as Pattern Recognition, Knowledge-Based Systems and Neurocomputing. He has won the best paper award of BICS2019 and the APNNS Young Researcher Award. He is a member of ACM, IEEE and IAPR, a senior member of CCF and CAAI, and a professional committee member of CAAI-PR, CAA-PRMI and CSIG-DIAR.

Speech Title: "Automatic Design of Deep Neural Networks"

Abstract: Deep neural networks (DNNs) have been widely used in many applications, such as pattern recognition and computer vision. However, design of DNNs needs expertise to deal with lots of hyperparameters and select a proper structure from many possible configurations. Hence, the architecture design of DNNs is transferring from hand-crafted to automatic methods. In this talk, I will present some novel automatic design methods of DNNs, including DNA Computing Inspired Deep Networks Design, Automatic Design of Deep Networks with Neural Blocks, AutoML for DenseNet Compression, Differentiable Light-Weight Architecture Search, and Generative Neural Architecture Search. These methods comprehensively present the state-of-the-art of the neural architecture search area.