Dr. Yonghua Lin is Senior Technical Staff Member and Senior Manager of Cognitive AI System in IBM Research. She is the founder and leader of IBM Supervessel Cloud (www.ptopenlab.com), which provides open services to communities and industry, e.g. accelerator service, big data, cognitive service and DL/ML computing. She has worked on system architecture, cloud computing and cognitive system research for more than 15 years. And now she is focusing on the AI system for industry. She led the research group develop the large scale AI system on cloud and edge, based on the leading technologies like FPGA virtualization, Deep Learning acceleration and Extreme-Low Bit DNN, etc. Besides, she is driving the innovation on deep learning platform for visual comprehension, called VisionBrain. It has been deployed to provide the image recognition service on IBM cloud. In the past more than 10 years, her work covered all kinds of IBM multicore processors, including IBM network processor, IBM Cell processor, PRISM, IBM POWER 6/7/8, etc. She was also the initiator of Wireless Network Cloud with SDR technology in industry, which is called C-RAN today. She led IBM team built up the FIRST optimized cloud for 4G mobile infrastructure, and successfully demonstrated in ITU, Mobile World Congress, etc. She herself has more than 50 patents granted worldwide and publications in top conferences and journals. She is the founding and current chair of IEEE Beijing Section Women in Engineering Affinity Group.