EDGE AI: TOWARDS FUTURE ARTIFICIAL INTELLIGENCE IN EDGE COMPUTING

The speaker will first present the challenging issues and solutions on distributed model learning in Edge AI. These include optimizing model aggregation structure and controlling aggregation frequency. Moreover, the talk will cover recent results on distributed model learning with Non-IID, streaming, and unlabeled data. The speaker will also introduce their self-developed open-source platform called EdgeTB, designed for programming and testing Edge AI. Finally, the talk will conclude by discussing future research directions in Edge AI.

📅 **19 April 2024 (Friday)**
🕐 **11:00am-12:00nn**

📍 **SEK210, 2/F, Simon & Eleanor Kwok Building**
🌐 **English**

SPEAKER:

Prof. YANG Lei

Prof. Lei Yang is currently a full professor at School of Software Engineering, South China University of Technology (SCUT). Before he joined SCUT in March, 2016, he has been working as a postdoctoral fellow at the Department of Computing, The Hong Kong Polytechnic University, where he obtained the PhD degree in computer science on May, 2014. His research interest is cloud and edge computing, distributed systems and networks. He has published over 60 papers in major international journals and conference proceedings including top journals like IEEE TMC, IEEE TC, IEEE TPDS, IEEE TSC, ACM TKDD and top conferences like IEEE INFOCOM and IEEE PERCOM. He is directing several research and development projects from both government and industry agencies such National Natural Science Foundation of China (NSFC), Guangdong Basic and Applied Basic Research Foundation and Tencent. He has won 2019 Ministry of Education Higher Education Outstanding Scientific Research Output Awards – Natural Science Award (Second Class), and 2020 IEEE TCCLD Research Innovation Award (Team award). One of his papers is elected as the spotlight paper on IEEE Transactions on Cloud Computing. Prof. Yang got M.S. degree in computer science from Institute of Computing Technology, Chinese Academy of Sciences in 2010, and B.S. degree in electronic engineering from Wuhan University in 2007. He has been in Deeds Lab at Technische Universitat Darmstadt, Germany, as a visiting scholar from Nov.2012 to Mar.2013.