



**Biography:** Dr. Yan Yang is currently Professor and deputy dean of Computing and Artificial Intelligence, Southwest Jiaotong University. She holds an Academic and Technical Leader of Sichuan Province. Her mainly research interests include artificial intelligence, big data analysis and mining, ensemble learning and multi-view learning, etc. She has undertaken more than 10 high-level projects and published more than 230 papers, one of which was selected as one of the 100 most influential international academic papers in China in 2021. She won the special award of Zhan Tianyou Railway Science and Technology Award, and first prize of computer science and technology of Sichuan Province. She also serves as the Vice Chair of ACM Chengdu Chapter, and Vice-Chairman General of Sichuan Computer Society.

**Title:** Urban Spatio-Temporal Data Prediction based on Deep Learning

**Abstract:** Urban spatial-temporal data encapsulates a wealth of information and intrinsic value, rendering it of paramount importance in transportation perception domains. Through the analysis and exploration of urban spatial-temporal data, it can address typical urban challenges such as traffic congestion, thus providing invaluable support for the construction of smart cities. In this talk, I will introduce deep learning, multi-view learning and transfer learning to fully extract the nonlinear and dynamic spatial-temporal dependencies within data. Novel deep learning models are devised and the effectiveness of the proposed models is shown through the demands of traffic prediction.