

学术报告会

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邀请人：何建平

Relationships Between Structure and Dynamics in Multilayer Networks

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Abstract:

It has been revealed that there are abundant of relationships between the structure and dynamics of a network. For example, the PageRank centrality is corresponding to the result of a random walk process taking place on a network. Recently, multilayer networks, which consist of multiple layers of nodes with intra- and interlayer links, have been used to model many practical complex systems. In this talk, he will show how to analyze the structural and dynamical properties in multilayer networks, and explore the eigenvector centrality (including the PageRank centrality) in multilayer networks. Several interesting scenarios are presented to illustrate how the structure can impact on the dynamical process, providing a systematic way to explore the relationship between structure and dynamics in multilayer networks.

Biography:

Mincheng Wu is a Postdoctoral Researcher with the group of Networked Sensing and Control (NeSC) in the State Key Lab. of Industrial Control Technology, Zhejiang University. He received his Ph. D from the College of Control Science and Engineering, Zhejiang University in 2021. During 2018-2019, He was a visiting scholar at Department of Physics, Boston University. During 2014-2016, he was with the School of Mathematical Sciences, Zhejiang University, and he received his B. S. in Mathematics from the College of Mathematics and Computer Science, Zhejiang Normal University in 2014. His research interests cover in the field of network science, including statistical inference, structural analysis and dynamical analysis in multilayer networks.