学 术 报 告 ： Exponential state estimation for competitive neural network via stochastic sampled-data control with packet losses

报告人：杨永清（江南大学，博士生导师）

报告时间：2021 年 4 月 9 日 20:00

腾讯会议号：466 415 630

联系人：黄振坤　教授

报 告 摘 要 ： The exponential state estimation problem is investigated for competitive neural networks via stochastic sampled-data control with packet losses. A switched system model is used to describe packet dropouts. The sampled-data is used to estimate the neuron states, and the probabilistic sampling strategy in two sampling periods is proposed. When the missing of control packet occurs, some sufficient conditions are obtained to guarantee that the exponentially stable of the error system by means of constructing an appropriate Lyapunov function and using the average dwell-time technique. Finally, a numerical example is given to show the effectiveness of the proposed method.

报告人简介：

杨永清，教授、博士生导师，主要从事神经网优化络理论与应用、复杂系统动力学分析、多智能体一致性等研究。主持完成国家自然科学基金、教育部科学技术研究重点项目、江苏省自然科学基金等科研项目，已在国内外重要学术期刊上发表学术论文 100 余篇，获江苏省科学技术奖一等奖。

理学院