

**学术报告：** Exponential state estimation for competitive neural network via stochastic sampled-data control with packet losses

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**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.

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