

# 灵峰论坛

## Modeling, Analysis and Design of Resilient Cyber-Physical Systems

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浙江大学工控新楼501室



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Bruno Sinopoli received the Dr. Eng. degree from the University of Padova in 1998 and his M.S. and Ph.D. in Electrical Engineering from the University of California at Berkeley, in 2003 and 2005 respectively. In 2019 Dr. Sinopoli joined Washington University in Saint Louis, where is the chair of the Electrical and Systems Engineering department. His research interests include the modeling, analysis and design of Secure by Design Cyber-Physical Systems with applications to Energy Systems, Interdependent Infrastructures and Internet of Things.

### Abstract

Recent advances in sensing, communication and computing allow cost effective deployment in the physical world of large-scale networks of sensors and actuators, enabling fine grain monitoring and control of a multitude of physical systems and infrastructures. Such systems, called cyber-physical, lie at the intersection of control, communication and computing. It is therefore imperative to derive new models and methodologies to allow analysis and design of robust and secure cyber-physical systems (CPS). In this talk I will present an overview of recent research on the topic and discuss future directions.