



控制科学与工程学院 科技创新论坛



报告人: Prof. Sajal K. Das

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报告题目:

Securing Cyber-Physical and IoT Systems in Smart Living Environments

报告时间: 周五 14:00--15:00 (5月11日)

报告地点: 工控新楼501室

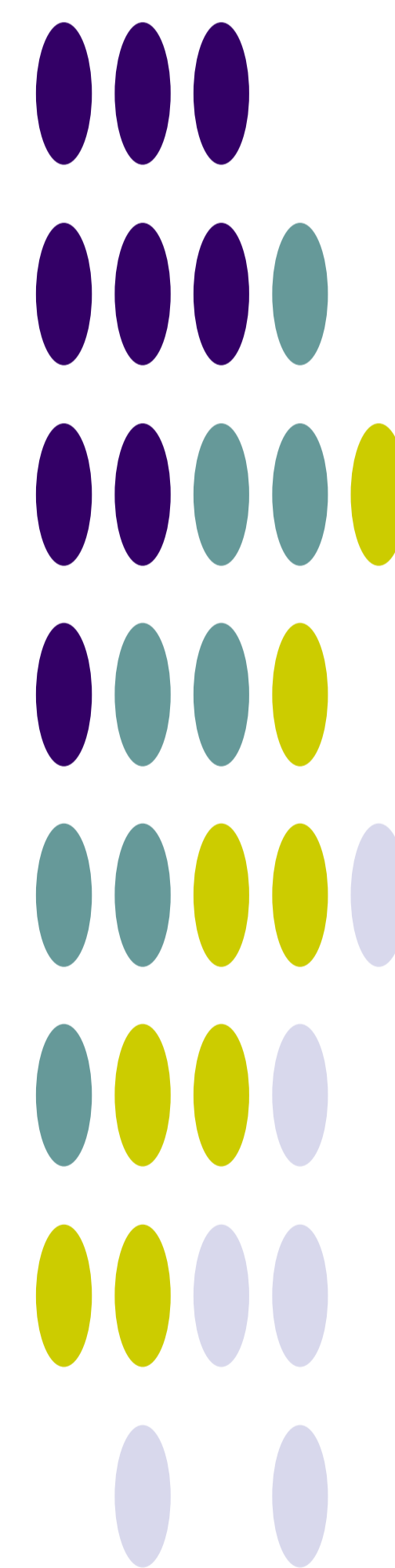
报告摘要:

Our daily lives are increasingly dependent on a variety of smart cyber-physical infrastructures. Alongside, smartphones and sensor-based IoTs are empowering humans with fine-grained information and opinion collection through crowdsensing about events of interest, resulting in actionable inferences and decisions. This synergy has led to CPS convergence with human in the loop. However, CPS and IoT systems are extremely vulnerable to failures, attacks and security threats. This talk will highlight unique research challenges in securing such systems, followed by novel defense mechanisms. Our proposed frameworks and solutions are based on a rich set of theoretical and practical design principles, such as secure data fusion, uncertainty reasoning, information theory, prospect theory, reputation scoring, and belief and trust models.

报告人简介:



Dr. Sajal K. Das is a Professor of Computer Science and Daniel St. Clair Endowed Chair at the Missouri University of Science and Technology, where he was the Chair of Computer Science Department during 2013-2017. Dr. Das' research interests include wireless and sensor networks, mobile and pervasive computing, cyber-physical systems and smart environments, cyber security, IoT, big data analytics, distributed and cloud computing, biological and social networks, applied graph theory and game theory. Dr. Das is a recipient of 10 Best Paper Awards at prestigious conferences, such as ACM MobiCom, IEEE PerCom, IEEE SmartGridComm. He is also a recipient of numerous awards for the IEEE Computer Society's Technical Achievement Award for pioneering contributions to sensor networks and mobile computing, and IEEE Region-5 Outstanding Educator Award. Dr. Das is an IEEE Fellow.



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