



受中国矿业大学信息与控制工程学院邀请,英国布鲁奈尔大学王子栋教授在我校举行 学术报告。欢迎广大师生踊跃参加!

报告题目: What You See Is Not What You Get: A Networked Estimation Perspective

报告时间: 9月10日上午10:00

报告地点:信息与控制工程学院 A311

主办单位: 信息与控制工程学院

报告人简介:



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报告摘要: In this presentation, we talk about the state estimation problems for networked systems under unconventional measurements. Such unconventional measurements include, but are not limited to, 1) randomly occurring phenomena (e.g. delays, dropouts, saturations, quantization, fading, disorders, resolutions, biases, degradations, censorings, outliers), 2) effects induced by communication protocols (e.g. event-triggering protocol, round-robin protocol, try-once-discard protocol and random access protocol), and 3) effects induced by coding-decoding mechanisms (e.g. encryption-decryption scheme). Some background knowledge is first introduced from the perspectives of concepts, applications and challenges. Then, some detailed discussions are given on the optimal estimation issues with network constraints, system constraints and protocol constraints, and a few developed methodologies for handling unconventional measurements are discussed. Finally, we conclude our main contributions and some future directions.