

Detection, Localization and Resolution with Noise

Dr. Knut Solna
Department of Mathematics
University of California, Irvine

This seminar will focus on target detection in a cluttered medium, and the use of incoherent signals for estimation. In particular, it will analyze the tradeoff between resolution and detection probability. The performance depends strongly on the medium clutter and the measurement noise. In various regimes we analyze the performance of the detection test and how it depends on the various noise sources.