



**Control Systems Society
UK&RI Chapter**

Performance Analysis of 802.11 Technology for Wireless Feedback Control

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A definitive study of the suitability of IEEE 802.11b wireless technology for closed-loop control is currently lacking. Detailed simulation results will quantify the effect of factors like channel contention, channel errors and channel bandwidth on state-feedback control performance of an inverted pendulum mounted on a cart. Recent research on varying the sample rate using QoS in order to maintain closed-loop performance will be described.

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Venue: W1.30, Sir David Davies Building, Department of Electronic and Electrical Engineering, Loughborough University, Loughborough, Leicestershire

Free Admission - All Welcome

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