

## Abstract

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The design of a control system is not finished with the derivation of the necessary control algorithms. The system designer has to schedule all control and calculation tasks within the sampling interval of the system. Higher sampling frequencies often improve the system performance. On the other hand, more sophisticated control algorithms require more computing time thus reducing the obtainable sampling frequencies. In this paper a systematic approach to obtain a design optimum is given. The design method is illustrated with the control of a flexible robot arm.