Cascade Adjustment of the Speed of a DC Motor Using the Kessler Variant

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Abstract

Designing feedback control systems for complex processes is usually a difficult task. Using a single controller would usually mean that generic algorithms such as PI, PD and PID are almost impossible to be used. This paper presents a way of designing a control system based on the "cascade adjustment" principle, which employs several generic controllers, and it is relatively easy to be tuned. This system is used for adjusting the speed of a DC motor.