

**Adaptive control of continuous-time systems by
chaotification**

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The generation of chaos by a linear system with nonlinear feedback has been studied by many researchers. In this paper, a simple method is used to make an arbitrary nonlinear continuous-time system chaotic. For this, a nonlinear time-delay feedback is applied to the linearized system. Then a model reference adaptive controller is proposed to control the resulted system in order to converge to a desired reference trajectory with uncertain parameters. An example is included to show the effectiveness of the method.