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L1 Adaptive Control Theory

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L1 Adaptive Control Theory presents a new and efficient way of developing control laws for highly uncertain or rapidly changing environments. The key feature of this new theory is the decoupling of adaptation from robustness: the architectures of L1 adaptive control theory have guaranteed transient performance and robustness in the presence of fast adaptation.

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Therefore, the underlying theory is named L1 adaptive-control theory. For the definition and properties of the L1-norm of a system see " L1-Norm of a System." The key feature of L1 adaptive-control architectures is guaranteed robustness in the presence of fast adaptation, which leads to uniform performance bounds both in tran-

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