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Generally, robust adaptive control methods, have gained more attention recently due to their agility and robustness. However, most of these papers employ model-based

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method; therefore, the plant should be modeled comprehensively which is usually a delicate task, particularly, when the plant is a robot with non-linear equations.

Experimental study on robust adaptive control with ...

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Abstract: A novel robust adaptive controller for multi-input multi-output (MIMO) feedback linearizable nonlinear systems possessing

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unknown nonlinearities, capable of guaranteeing a prescribed performance, is developed in this paper. By prescribed performance we mean that the tracking error should converge to an arbitrarily small residual set, with convergence rate no less than a prespecified ...

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Robust Adaptive Control of Feedback Linearizable MIMO ...

Adaptive control is different from robust control in that it does not need a priori information about the bounds on these uncertain or time-varying parameters; robust control guarantees

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that if the changes are within given bounds the control law need not be changed, while adaptive control is concerned with control law changing itself.

Adaptive control - Wikipedia

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of underwater vehicles at low speed is challenging, as the authority of the control surfaces increases with the velocity squared, and thus at low speed the control surfaces are less effective.

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Cooperative Autonomous ...

(2020). Adaptive robust control for lower limb rehabilitation robot with uncertainty based on Udwadia–Kalaba approach. *Advanced Robotics: Vol. 34, Special Issue on Neuro-Robotics: From Brain Machine Interfaces to Rehabilitation Robotics*, pp.

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