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Passivity Based Control And Estimation

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Passivity-based Control and Estimation of Dynamic Visual Feedback Systems with a Fixed Camera Hiroyuki Kawai*, Toshiyuki Murao** and Masayuki Fujita** Abstract—This paper deals with the control and the estimation of dynamic visual feedback systems with a fixed camera. Specifically, we consider the target tracking problem of dy-

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His research interests include passivity-based control in robotics and robust control. He is the coauthor of the book "Passivity-Based Control and Estimation in Networked Robotics" (Springer, 2015). He was the IEEE CSS Vice President Conference Activities and a member of IEEE CSS Board of Governors.

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Low-Cost Implementation of Passivity-Based Control and ...

The former part discusses how passivity is utilized for visual feedback motion estimation and control. After pointing out inherent passivity in 3-D rigid-body motion, we present a passivity-based 3-D motion estimation mechanism, termed visual motion observer, and the observer-based camera control scheme.

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A passivity-based control of Vertical Take-off and Landing (VTOL) Unmanned Aerial Vehicles (UAVs) is presented in this paper. An estimator of unmodeled dynamics and external wrench (forces plus moments) acting on the aerial vehicle and based on the momentum of the system is employed to compensate such disturbances effects.

Passivity-based control of VTOL UAVs with a momentum-based ...

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Due to these merits, passivity based control is used in various applications such as piezoelectric Timoshenko beam , bilateral teleoperation , and flight control design . In addition to the above mentioned merits, passivity based control law uses most sensitive variable [13] which makes the controller more effective in comparison with other controllers like proportional-integral controller [8 , 9] .

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Passivity based adaptive control for mechanical manipulators using LS-type estimation Abstract: A novel adaptive controller for mechanical manipulators is presented. The convergence analysis is based on the passivity properties of the plant and those of the parameter estimation algorithm.

Passivity based adaptive control for mechanical ...

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