

Passivity Based Control And Estimation In Networked Robotics Communications And Control Engineering

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Passivity Based Control And Estimation

The third part presents the unified passivity-based control-design methodology for multi-agent systems. This scheme is shown to be either immediately applicable or easily extendable to the solution of various motion coordination problems including 3-D attitude/pose synchronization, flocking control and cooperative motion estimation.

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Passivity-Based Control and Estimation in Networked ...

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.

ECE Seminar Series: Passivity-Based Control and Estimation ...

This paper deals with the control and the estimation of dynamic visual feedback systems with a fixed camera. Specifically, we consider the target tracking Passivity-based control and estimation of dynamic visual feedback systems with a fixed camera - IEEE Conference Publication

Passivity-based control and estimation of dynamic visual

...

The second part emphasizes passivity's usefulness for visual feedback control and estimation. Convergence is rigorously proved even when other passive components are interconnected. The passivity approach is also differentiated from other methodologies.

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Passivity-based Control and Estimation of Dynamic Visual Feedback Systems with a Fixed Camera Passivity-based Control and Estimation of Dynamic Visual Feedback Systems with a Fixed Camera Hiroyuki Kawai*, Toshiyuki Murao** and Masayuki Fujita**

Passivity-based Control and Estimation of Dynamic Visual

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Passivity based control of DC motor in sensorless configuration is proposed in this paper. Exact tracking error dynamics passive output feedback control is used for stabilizing the speed of Buck converter fed DC motor under various load torques such as constant type, fan type, propeller type, and unknown load torques.

Sensorless Load Torque Estimation and Passivity Based

...

Abstract. 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 ...

T1 - Passivity-based control of nonlinear systems. T2 - Proceedings of the 1997 American Control Conference. Part 3 (of 6) AU - Ortega, Romeo. AU - Jiang, Zhong P. AU - Hill, David J. PY - 1997. Y1 - 1997. N2 - In this paper we survey some recent results on stabilization of nonlinear systems using a passivity approach.

Passivity-based control of nonlinear systems: A tutorial

...

Passivity-based control and estimation of dynamic visual feedback systems with a fixed camera Conference Paper in Proceedings of the IEEE Conference on Decision and Control 4:4022 - 4027 Vol.4 ...

Passivity-based control and estimation of dynamic visual

...

Passivity-Based Control and Estimation in Networked Robotics. [Takeshi Hatanaka; Nikhil Chopra; Masayuki Fujita; Mark W Spong] -- Highlighting the control of networked robotic systems, this book synthesizes a unified passivity-based approach to an emerging cross-disciplinary subject.

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Communications And Control Engineering

Passivity-Based Control and Estimation in Networked ...

Passivity-based control and estimation in networked robotics. [Takeshi Hatanaka; Nikhil Chopra; Masayuki Fujita; Mark W Spong;] -- Highlighting the control of networked robotic systems, this book synthesizes a unified passivity-based approach to an emerging cross-disciplinary subject.

Passivity-based control and estimation in networked ...

He is the coauthor of Passivity-Based Control and Estimation in Networked Robotics (Springer, 2015). His research interests include networked robotics and energy management systems. He received the Kimura Award (2017), Pioneer Award (2014), Outstanding Book Award (2016) and Outstanding Paper Awards (2009, 2015) all from SICE.

Takeshi Hatanaka

Abstract. This chapter provides foundations not only for bilateral teleoperation but also for all of the subsequent chapters. Passivity, stability of dynamical systems, and several passivity-based motion control schemes are introduced.

Foundation: Passivity, Stability and Passivity-Based ...

A system and method for estimation of round trip times (RTTs) within a TCP based data network is described. The system provides for a passive monitoring of the network round-trip latency by simply observing existing TCP connections in operation. In this way, it is possible to measure RTT out to a remote site without having to send any traffic to that site with the result that there is no ...

US20100238828A1 - System and method for estimation of ...

A new road estimation based suspension hybrid control strategy is proposed. Its aim is to adaptively change control gains to improve both ride comfort and road handling with the constraint of rattle space. To achieve this, analytical expressions for ride comfort, road handling, and rattle space with respect to road input are derived based on the hybrid control, and the problem is transformed ...

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Adaptive Hybrid Control of Vehicle Semiactive Suspension ...

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