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Passivity Based Control And Estimation

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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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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.

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