Formation Flying With Decentralized Control in Libration Point Orbits

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Formation Flying with Decentralized Control in Libration Point Orbits

A decentralized control framework is investigated for applicability of formation flying control in libration orbits. The decentralized approach, being non-hierarchical, processes only direct measurement data, in parallel with the additional spacecraft. Both are linearized about the existing state estimate much like the extended Kalman filtration system. Control is accomplished via linearization in regards to a reference libration orbit with regular control using a Linear Quadratic Regulator (LQR) or the GSFC control algorithm. Based on this preliminary function, the decentralized approach is apparently feasible for forthcoming libration missions using distributed spacecraft.

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