Philip Tveu

Control of Multi-Agent Networks

From Network Design to Decentralized Coordination

Philip Twu

Control of Multi-Agent Networks: From Network Design to Decentralized Coordination

This dissertation represents a culmination of Philip Twu's doctoral research at the Georgia Robotics and Intelligent Systems (GRITS) Lab from Fall 2008 to Spring 2012. Jointly, the tools support a multi-agent system design methodology that is showcased through examples in three program domains: air traffic merging and spacing beneath the FAA's NextGen system, collaborative multi-UAV convoy safety in dynamic conditions, and an educational device for teaching robotics at the graduate level. In particular, it presents a suite of tools that he had developed which fit into various stages of the multi-agent system design process: ranging from initial network design, to local execution using decentralized coordination strategies. It's the author's firm belief that as autonomous and unmanned systems become significantly affordable, commonplace, and reliable soon, that the ideas which are presented right here will significantly contribute towards transitioning multi-agent systems from the lab to becoming a fundamental element of our everyday lives.

[continue reading](#)

download Control of Multi-Agent Networks: From Network Design to Decentralized Coordination epub

download free Control of Multi-Agent Networks: From Network Design to Decentralized Coordination epub

download Rough Sets and Knowledge Technology: 8th International Conference, RSKT 2013, Halifax, NS, Canada, October 11-14, 2013, Proceedings (Lecture Notes in Computer Science) fb2
download Economic Analysis of Cryptographic Currencies on the Basis of Bitcoin pdf
download free Architectural Transformations in Network Services and Distributed Systems mobi