
Contents

Preface.....vii

About the Authorix

Chapter 1 An Introduction to Large-Scale Quadrotor UAV
Networked Control System 1

Chapter 2 Robust H_{∞} Team Formation Tracking Control of Stochastic
Multi-Quadrotor UAV Networked Control System..... 11

Chapter 3 Stochastic Robust H_{∞} Team Formation Tracking Design of
Multi-Quadrotor UAV Networked Control System under
Time-Varying Delay and Random Fluctuation in Smart City45

Chapter 4 Decentralized H_{∞} PID Team Formation Tracking Control
of Large-Scale Quadrotor UAVs under External Disturbance
and Vortex Coupling 82

Chapter 5 Stochastic Decentralized H_{∞} Tracking Control of Large-Scale
Team Formation UAV Networked Control System with Time-
Varying Delay and Packet Dropout under Interconnected
Coupling and Wiener Fluctuation 119

Chapter 6 DNN-Based H_{∞} Decentralized Attack-Tolerant Team
Formation Tracking Design of Large-Scale UAV Networked
Control System under Time-Varying Delay and Interconnected
Coupling 171

Chapter 7 Integrating Local Motion Planning and Robust Decentralized
Fault-Tolerant Tracking Control for Search and Rescue Task of
Hybrid UAVs and Biped Robots Team System 222

Index.....265