

Part II

Analysis

Built on the design framework of the packet-based control approach, this part further discusses the theoretical analysis of the corresponding packet-based networked control systems. This includes the stochastic modelling and analysis of packet-based networked control systems in Chap. 6, a new stability analysis approach inspired by the packet-based control approach in Chap. 7, and a comprehensive analysis of the different delay effects in different channels in networked control systems in Chap. 8. These analyses complete the theoretical foundation of the packet-based control framework for networked control systems.