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Nota di contenuto	Intro -- Preface -- Acknowledgements -- Contents -- Abbreviations -- 1 Introduction -- 1.1 Networked Control System -- 1.2 Model Predictive Control -- 1.3 Distributed Model Predictive Control -- 1.4 Event Triggered Control -- 1.5 Outline of This Book -- References -- 2 DMPC of Networked Systems with Event-Triggered Computation -- 2.1 Introduction -- 2.2 DMPC with a Cooperative Event-Triggered Computation Mechanism -- 2.2.1 Optimization Problem Formulation -- 2.2.2 Cooperative Event-Triggering Condition -- 2.2.3 Cooperative Event-Triggered DMPC Algorithm -- 2.2.4 Feasibility and Stability Analysis of the Overall Closed-Loop System -- 2.2.5 Example -- 2.3 DMPC with a Decentralized Event-Triggered Computation Mechanism -- 2.3.1 Optimization Problem Formulation -- 2.3.2 Decentralized Event-Triggering Condition -- 2.3.3 Event-Triggered Dual-Mode DMPC Algorithm -- 2.3.4 Feasibility and Stability Analysis of the Overall Closed-Loop System -- 2.3.5 Example -- 2.4 Discussion -- References

-- 3 DMPC of Networked Systems with Event-Triggered Communication -- 3.1 Introduction -- 3.2 Optimization Problem Formulation -- 3.3 DMPC with Event-Triggered Communication -- 3.3.1 Event-Triggered Condition -- 3.3.2 DMPC Algorithm with Event-Triggered Communication -- 3.4 Feasibility and Stability Analysis -- 3.5 Example -- 3.6 Conclusion -- References -- 4 Dynamic Event-Triggered DMPC of Networked Systems -- 4.1 Introduction -- 4.2 Optimization Problem Formulation -- 4.3 Event-Triggering Condition -- 4.4 Dynamic Event-Triggering Condition -- 4.5 Dynamic Event-Triggered DMPC Algorithm -- 4.6 Performance Analysis -- 4.7 Examples -- 4.8 Conclusion -- References -- 5 Mixed Time/Event-Triggered DMPC of Networked Systems -- 5.1 Introduction -- 5.2 Problem Formulation -- 5.2.1 Event-Triggered DMPC Optimization Problem -- 5.2.2 Time-Triggered DMPC Optimization Problem. 5.3 Mixed Time/Event-Triggered Dual-Mode DMPC -- 5.3.1 Event-Triggering Condition -- 5.3.2 Mixed Time/Event-Triggered Dual-Mode DMPC Algorithm -- 5.4 Feasibility and Stability Analysis -- 5.5 Example -- 5.6 Conclusion -- References -- 6 Self-Triggered DMPC of Networked Systems -- 6.1 Introduction -- 6.2 Problem Formulation -- 6.3 Co-Design of Self-Triggered Mechanism and DMPC Strategy -- 6.3.1 Self-Triggered DMPC Optimization Control Problem -- 6.3.2 Explicit Solution of the Self-Triggered MPC -- 6.3.3 Self-Triggered DMPC Algorithm -- 6.4 Stability Analysis -- 6.5 Example -- 6.6 Conclusion -- References -- 7 Event-Triggered Distributed Model Predictive Control for Interconnected Networked Systems -- 7.1 Introduction -- 7.2 Optimization Problem Formulation -- 7.3 Event-Triggering Conditions for NCSs with Dynamic Coupling -- 7.4 Event-Triggered DMPC Algorithm for Interconnected NCSs -- 7.5 Feasibility and Stability Analysis -- 7.6 Example -- 7.7 Conclusion -- References.
