

1. Record Nr.	UNINA9910745587603321
Autore	Sun Jiayue
Titolo	Adaptive Dynamic Programming : For Chemotherapy Drug Delivery // by Jiayue Sun, Shun Xu, Yang Liu, Huaguang Zhang
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	981-9959-29-2
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (XV, 135 p. 40 illus., 38 illus. in color.)
Disciplina	629.8
Soggetti	Control engineering Robotics Automation Drug delivery systems Control, Robotics, Automation Drug Delivery
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Preface -- Acknowledgements -- Chapter1 Introduction -- Chapter 2 Neural Networks-Based Immune Optimization Regulation Using Adaptive Dynamic Programming -- Chapter 3 Optimal Regulation Strategy for Nonzero-Sum Games of the Immune System Using Adaptive Dynamic Programming -- Chapter 4 Evolutionary Dynamics Optimal Research-Oriented Tumor Immunity Architecture -- Chapter 5 N-Level Hierarchy-Based Optimal Control to Develop Therapeutic Strategies for Ecological Evolutionary Dynamics Systems -- Chapter 6 Combination Therapy-Based Adaptive Control for Organism Using Medicine Dosage Regulation Mechanism.-Chapter 7 Adaptive Virotherapy Strategy for Organism with Constrained Input Using Medicine Dosage Regulation Mechanism -- References.
Sommario/riassunto	This open access book focuses on the practical application of Adaptive Dynamic Programming (ADP) in chemotherapy drug delivery, taking into account clinical variables and real-time data. ADP's ability to adapt to changing conditions and make optimal decisions in complex and uncertain situations makes it a valuable tool in addressing pressing challenges in healthcare and other fields. As optimization technology

evolves, we can expect to see even more sophisticated and powerful solutions emerge.
