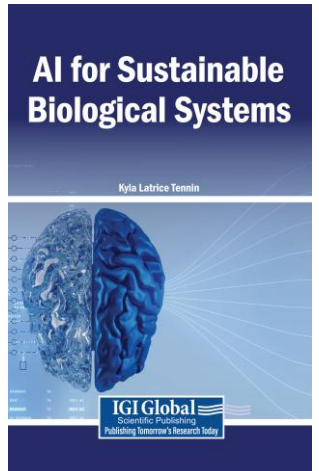


AI for Sustainable Biological Systems:

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Description:

Artificial intelligence (AI) transforms the study and management of biological systems by enabling more efficient analysis, prediction, and decision-making across ecological and biological processes. As global challenges intensify, AI promotes sustainability in agriculture, conservation, ecosystem management, and biotechnology. By integrating large-scale biological data with advanced machine learning and computational models, AI optimizes resource use, improves environmental monitoring, and supports evidence-based solutions for sustainable development. The application of AI to sustainable biological systems represents an interdisciplinary approach that combines technological innovation with ecological responsibility to address pressing challenges facing society.

AI for Sustainable Biological Systems explores how AI helps manage and optimize biological systems in ways that support environmental sustainability and resource efficiency. It examines the use of AI in areas like agriculture, biodiversity conservation, ecosystem monitoring, and biotechnology, as well as its potential to address global challenges related to climate change, food security, and ecological resilience. This book covers topics such as environmental science, sustainable development, and wildlife management, and is a useful resource for biologists, engineers, academicians, researchers, and scientists.

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