

Bush

Sustainability and Artificial Intelligence

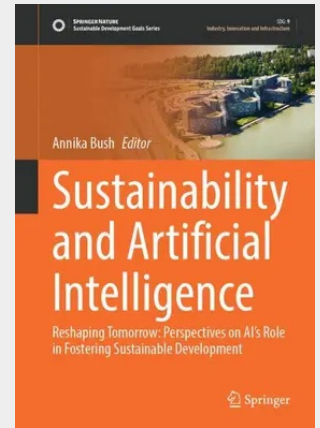
Reshaping Tomorrow: Perspectives on AI's Role in Fostering Sustainable Development

As artificial intelligence transforms the world and sustainability becomes increasingly urgent, understanding their intersection is critical for researchers, industry leaders, and policymakers. This volume brings together international scholars exploring how AI can advance sustainability goals while addressing the challenges these technologies create.

From geothermal resource identification to food systems and industrial infrastructure, contributors demonstrate AI's transformative potential while examining the sustainability paradox: harnessing computational power for environmental solutions while managing significant energy consumption and resource demands.

The book presents research across three domains: reimagining our relationship with natural systems, transforming human-built infrastructure, and ensuring responsible AI development. Contributors offer frameworks for understanding AI's sustainability role, governance approaches, and pathways toward sustainable artificial intelligence.

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