## Title of the book

## **Explainable Artificial Intelligence in Developing Sustainable Solutions**

**Book Editors** 

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Scope of the Book

"Explainable Artificial Intelligence in Developing Sustainable Solutions" offers an insightful exploration into the transformative role of AI across crucial sectors impacting our journey towards sustainability. This monograph delves into three pivotal areas where AI's influence and application hold the potential to significantly advance the Sustainable Development Goals (SDGs) while confronting ethical, interpretability, and societal challenges.

**Part 1** investigates how businesses, through the adoption of AI and related technologies, can drive innovation and create sustainable solutions that positively influence social and economic patterns. It stresses the necessity for these technologies to be interpretable and explainable to ensure their alignment with sustainable development principles, thus avoiding unintended consequences.

**Part 2** expands the discourse to AI's role in societal transformation, covering government, education, healthcare, and urban development. It emphasizes the critical need for AI applications to be not only effective but also transparent and ethically aligned, ensuring that technology serves broader societal interests and contributes to a more inclusive, sustainable future.

**Part 3** focuses on the energy sector, underlining energy as a cornerstone of sustainability. It highlights how AI and Machine Learning can catalyze the shift towards greener energy solutions, emphasizing the importance of Explainable AI (XAI) in making energy innovations accessible, equitable, and aligned with global sustainability goals.

Through these discussions, the monograph underscores the imperative of developing AI technologies that are not just powerful but also responsible and inclusive. Integrating XAI champions a future where technological advancements are both understandable and beneficial across all societal levels, ensuring a sustainable and equitable global landscape.

Submissions

Chapter proposals should be submitted by **3 June 2024**.