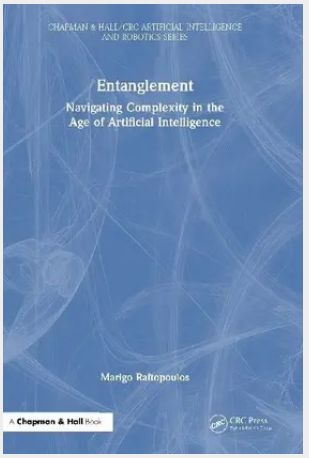
Raftopoulos

Entanglement

Navigating Complexity in the Age of Artificial Intelligence



This book is a message of hope and a call to action in building flourishing human–machine systems in the age of artificial intelligence (AI). It looks beyond the AI hype and advocates for humanity in an industry infatuated by machine superiority. Its focus is on empowering leaders and citizens by raising awareness and encouraging active participation in building responsible technology and resilient organizations. This book presents evidence-based and practical approaches for using AI to enhance business, human, and planetary outcomes. The research underpinning this work is informed by studies indicating that many organizations encounter difficulties in achieving a positive return on investment from their AI initiatives. This means that business leaders need to be astute in recognizing both the complexities and opportunities of using AI to effectively harness its potential. The book examines the interconnected relationship between humans and technology over time and discusses the need for renewed approaches to AI development and implementation. It suggests that AI differs from traditional technologies and requires adaptive human engagement for these new socio-technical systems to be successful. Additionally, the book aims to inform readers about both the beneficial and adverse impacts of AI technology on society. This publication is intended to inspire business professionals, researchers, and students specializing in human–AI collaboration, information systems, and technology management. The underlying research was supported by a European Union–funded Marie Sklodowska-Curie research fellowship for the Augmented Humans project, which focused on leveraging the strengths of both human and artificial intelligence to accelerate creativity and innovation without compromising planetary flourishing. This book offers deep insights and practical approaches for both technology researchers and business leadership teams. Supplementary materials are a key feature of this book, which includes offering interactive co-creation tools, such as AI Design Cards, the Designing Tiny Robots game, and AI Design Canvases as digital downloads with every book purchased. The author invites readers to engage with their stakeholders with playful, participatory methods in building more effective and responsible human–AI systems.

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