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Role of AI and IoT in Humanized Computing

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This book offers an in-depth exploration of the core aspects of the Role of AI and IoT in exploring the transformative impact of artificial intelligence (AI) and the Internet of Things (IoT) on the evolution of human-centered computing systems. The book examines the fundamental principles, cutting-edge applications, and future directions of AI-driven humanized computing, where machines understand, respond to, and anticipate human needs in real time. The primary aim of this book is to provide an in-depth analysis of AI and IoT as enablers of personalized, context-aware computing experiences. It covers various domains, including wearable technology. Smart home, education, industrial automation and autonomous system, demonstrating how AI-powered IoT solutions are revolutionizing these sectors. The scope of the book highlights the ethical and social implications of humanized computing, addressing concerns such as privacy, security, transparency, and bias in AI-driven systems, and, with a multidisciplinary approach, it bridges the gap between AI, IoT, cognitive science and human–computer interaction (HCI). The content of this book is structured to balance theoretical concepts with real-world case studies and practical implementations, making it accessible to both technical and non-technical readers. Additionally, this book presents a comprehensive and forward-looking perspective. It serves as a valuable resource for anyone interested in the role of AI and IoT in shaping the next generation of human–computer interaction and intelligent systems.

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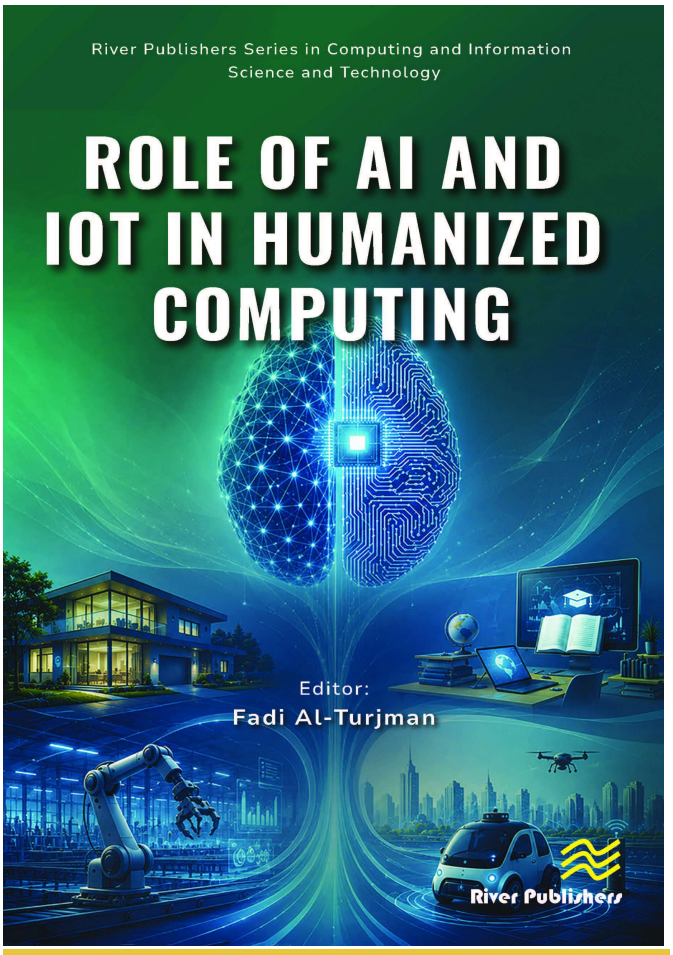

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