

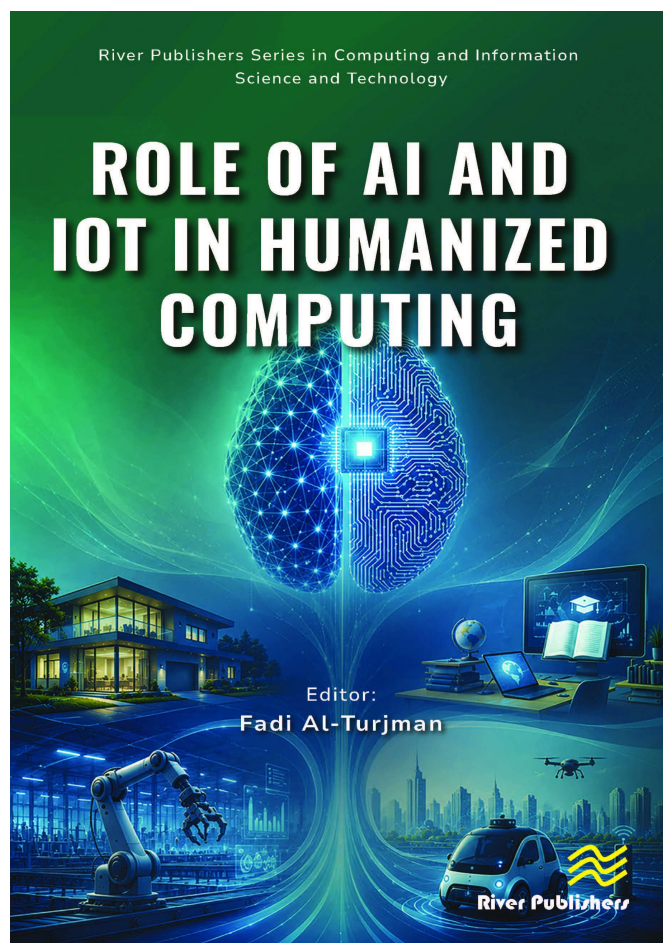
Role of AI and IoT in Humanized Computing

Author: Fadi Al-Turjman, AI and Informatics Faculty, Near East University, Turkey

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.

TABLE OF CONTENTS

- Prof Dux AI-powered Platform ?? A Comprehensive Study on an Intelligent Art Analysis System
- The Impact of Digital Banking Services on Customer Experience in the Banking Sector: Customer Satisfaction, Trust and Loyalty
- Comparative Study of Transformer Architectures ?? Seq2Seq, Transformer, Fine-tuning, and Prompt-based Approaches
- A Comparative Analysis of Traditional Machine Learning and Transformer-based Models for Twitter Sentiment Classification
- Artificial Intelligence Control of Energy Management in Photovoltaic Systems
- Creating a SUDOKU Strategy Game to Develop Logical Thinking for Children
- A Comparative Analysis of Generative AI Applications, Challenges, and Opportunities in Healthcare
- Recursive Self-improvement: The Pathway to Rapid Intelligence Explosion
- Comparison of Teacher Training Systems of TRNC, Canada, England, Finland and Sweden Within the Organisation of Educational Institutions for Smart Education
- The Implementation of Nature-based Educational Activities for Individuals with Special Needs
- An Evaluation of the Relationship Between the Leadership Styles of Preschool Administrators and Teacher Motivation
- Smart City Computer Network Security Using "Data Encryption Technology"
- Blockchain Technology with "Artificial Intelligence Technology" in Computer Information Security
- Designing Intuitive User Interfaces for Virtual Reality in Educational Platforms: An Overview
- Exploring the Synergistic Effects of Cognitive Ai and Immersive Virtual Reality Technologies in Autism Interventions
- Smart City Applications and the Impact on Today??s World
- The Future of Beekeeping an AI-driven Business Strategy for Sustainability
- Increasing Resilience and Fortifying Organizational Cybersecurity Provision with the Use of Sociocultural and Artificial Intelligence
- Security of Cyberspace Best Practices for Green Building Management Systems Protecting Sustainable Infrastructure from Cyberattacks
- AI in Smart Education Systems- An Overview
- Applications of Deep Learning Technology for Mobile Computing
- A Thorough Examination of Cyberattacks on Cybersecurity, Impact Assessment, And Power Systems Detection
- A Comprehensive Review of Cyber-Attacks in Power Systems: Impact Analysis, Detection, and Cyber Security
- Dynamic Evolution of Maritime Accidents: A Comparative Analysis Using Data-driven Bayesian Networks
- The Development and Implementation of an AI-powered Weather Prediction Program
- A Comprehensive Approach to Breast Cancer Detection Using a Machine Learning Model
- Intelligent IoT-driven Real-time Hazardous Gas Detection and Predictive Safety Alert System



River Publishers Series in Computing and Information Science and Technology

ISBN: 9788743814559

e-ISBN: 9788743814566

Available From: December 2026

Price: € 135.98



www.riverpublishers.com
marketing@riverpublishers.com