

ARTIFICIAL INTELLIGENCE (AI)

**Driven Innovations for
Smart Efficiency, Security
and Sustainability in
Modern Ecosystems**

Editors

**Q. MUHAMMAD SHAHKHIR MOZAMIR
NUR HASHIKIN MOHD SALLEH**

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ARTIFICIAL INTELLIGENCE (AI)

Driven Innovations for Smart Efficiency, Security and Sustainability in Modern Ecosystems

As artificial intelligence (AI) continues to drive innovation, its integration into diverse domains is shaping the future of technology and sustainability. Artificial Intelligence (AI)-Driven Solutions and Modern Ecosystems presents a collection of research-driven insights into AI applications across multiple fields, including mobile applications, biochar yield prediction, cybersecurity, wireless sensor networks (WSN), sustainable resource sharing, predictive maintenance and software testing. From explainable AI in environmental solutions to robust security systems and optimization techniques, this book offers a comprehensive exploration of cutting-edge advancements in AI and their real-world impact. Ideal for researchers, professionals and technology enthusiasts, this volume serves as a gateway to understanding how AI is transforming modern ecosystems for efficiency, security and sustainability.



MUHAMMAD SHAKHIR MOZAMIR is a lecturer at the Faculty of Information and Communication Technology (FTMK), UTeM, and a specialist in wireless sensor networks, the Internet of Things (IoT), and multi-array sensors. With his expertise in network technology and sensor applications, he has made significant contributions to IoT research and sensor innovations. His work is particularly focused on developing smart network systems aimed at enhancing community well-being, combining his teaching and research roles to advance the field.



NURHASHIKIN MOHD SALLEH is a Lecturer at Universiti Teknikal Malaysia Melaka (UTeM). She is an expert in the fields of Cyber Violent Extremism, Cyber Terrorism, Networking and ICT. Ts. Nurhashikin has extensive experience in her areas of expertise and has contributed significantly to academic and practical advancements. She is dedicated to fostering innovation and research in cybersecurity and related disciplines, reflecting her commitment to addressing critical challenges in today's digital landscape.



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