

*Futuristic Trends in*  
**Blockchain Applications**

*Volume 3, Book 1, 2024, IIP Series*



*Futuristic Trends in*

# **BLOCKCHAIN APPLICATIONS**

*Volume 3, Book 1, 2024, IIP Series*



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# PREFACE

Among the scientific community, blockchain and AI are seen as a promising combination that will transform the production and manufacturing industry, media, finance, insurance, e-government, etc. Nevertheless, there is no consensus with schemes or best practices that would specify how blockchain and AI should be used together. Combining blockchain mechanisms and artificial intelligence is still a particularly challenging task. This book series is devoted to promoting the investigation of cutting-edge blockchain technology, to exploring the latest ideas, innovations, guidelines, theories, models, technologies, applications and tools of blockchain and AI for the industry, and to identifying critical issues and challenges that researchers and practitioners must deal with in future research. It also focuses on a range of issues but not limited to

1. Key and innovative theories, methodologies, schemes and technologies of blockchain and AI
2. Architectures and platforms for blockchain and AI
3. Blockchain and AI for Big Data
4. Blockchain and AI for Multi-Agent systems
5. Blockchain and AI for the Internet of Things
6. Blockchain and AI in 5G
7. Sensors and devices for blockchain
8. Distributed consensus mechanisms (PoW. POS. POE...)
9. Encryption algorithms
10. Fault tolerance mechanisms
11. Other distributed ledger technologies
12. Cloud, fog, and edge computing approaches for blockchain
13. Blockchain standardization issues
14. Platforms for smart contracts
15. Side-chain and cross-chain systems
16. Anonymity and privacy in blockchain
17. Malicious transactions detection
18. 4th and 5th generation blockchain

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