

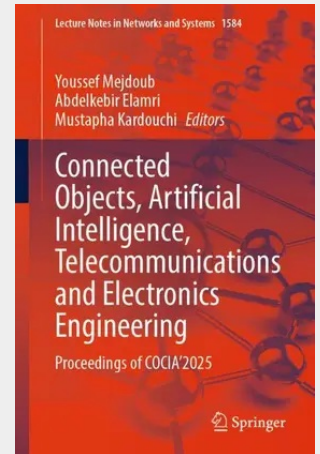
Connected Objects, Artificial Intelligence, Telecommunications and Electronics Engineering

Proceedings of COCIA'2025

This book presents recent advances on connected objects, systems, telecommunications, artificial intelligence, and electronic engineering. On the connected objects side, the proceedings covered advancements in areas like sensor miniaturization and networking to enable ever-more ubiquitous and autonomous IoT deployments. The AI-focused contributions explored novel machine learning architectures and training techniques tailored for resource-constrained edge devices. Key breakthroughs included federated learning models. In the telecommunications realm, the proceedings examined the critical role of 5G, 6G, and satellite communications in providing the high-bandwidth, low-latency connectivity required to unlock the full potential of AI-powered connected systems.

This book is a collection of high-quality research papers presented at the 3rd International Conference on Connected Objects and Artificial Intelligence (COCIA'2025), held at High School of Technology, Hassan II University, Casablanca, Morocco, during April 16–18, 2025. This book features cutting-edge research and insights at the intersection of the important technology domains, connected objects, systems, telecommunications, artificial intelligence, and electronic engineering. It is designed for researchers, academicians, professionals, and graduates seeking to deepen their understanding and expertise at the intersection of IoT, AI, telecommunications, and electronic engineering.

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