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Nota di contenuto	-- Artificial Intelligence in Medicine. -- A Real-Time Monitoring System For Neurodegenerative Disease Progression Utilizing Generative Adversarial Networks. -- Detection and Classification of Prostate Cancer using Lightweight MobileNet. -- A Comparative Analysis of Performance Metrics in Deep Learning Models for Brain Tumour Detection Using MRI. -- Prostate Cancer Detection and Classification using Deep Learning Pretrained Model. -- Empowering Healthcare Queries: A Chatbot for Converting Text to SQL. -- HEALeB: Healthcare 4.0 Enabled by IoT, AI, and Blockchain. -- Smart Systems Enabling Technologies. -- Comparative Analysis of AI-based Algorithms for the Detection Tuberculosis Bacilli on Digitised Human Tissue. -- Classical

vs Deep Learning Models: A Study on Maize Leaf Diseases Classification. -- Implementing a Novel Cybersecurity Algorithm for Smart Grid SCADA System. -- Improving Face Recognition from a Single Image. -- Development of Automated Banana Sorter Using Computer Vision Techniques. -- Evaluating The Effectiveness of Current Countermeasures Against Man-in-the-Middle Attack on Domain Name System. -- Artificial Intelligence-Enabled Communication Systems. -- Predicting Coronal Hole Activity: Key to Mitigating Space Weather Impacts. -- Building mapping for implementing an object-oriented model of educational infrastructure usage at Jean Lorougnon Guédé (UJLoG) University in central-western Côte d'Ivoire. -- Optical RIS in Indoor VLC Environments: What are the Suitable Materials. -- Single- vs Multi-Connectivity in Movable Access Point-Enabled Visible Light Communication Systems. -- A Review on VLC-based indoor positioning technologies. -- Evolving trends in the application of artificial intelligence to support the Sustainable Development Goals: A bibliometric analysis.

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Sommario/riassunto

This two-volume set LNICST 631 & 632 constitutes the proceedings of the Third Pan-African Conference on Pan-African Intelligence and Smart Systems, PAAISS 2024, which was held in Durban, South Africa, during December 4–6, 2024. The 39 full papers presented in this volume were carefully reviewed and selected from 103 submissions. They are organized according to the following topics: Part-I : Artificial Intelligence in Medicine; Smart Systems Enabling Technologies; and Artificial Intelligence-Enabled Communication Systems. Part-II : Artificial Intelligence Theory and Methods; Artificial Intelligence and Smart Systems; Remote sensing and Artificial Intelligence.

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