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Collana	Communications in Computer and Information Science, , 1865-0937 ; ; 2550
Disciplina	006.3
Soggetti	Artificial intelligence Machine learning Robotics Natural language processing (Computer science) Application software Image processing - Digital techniques Computer vision Artificial Intelligence Machine Learning Natural Language Processing (NLP) Computer and Information Systems Applications Computer Imaging, Vision, Pattern Recognition and Graphics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	-- Cyber Security. -- Enhancing Cross-Site Scripting Attack Detection in Web Applications with a Hybrid CNN-BiLSTM and Online Learning Approach. -- Detection and Classification of Bypass (SIMBox) Fraud Using Deep Learning: A Case Study on Ethio-Telecom of Ethiopia. -- AI in Medical, Biology & Sciology. -- Automatic Detection of Fruits Spoilage Using Edge Devices. -- Plant Disease Detection Using Digital Image Processing for Commonly Consumed Food Plants in Ethiopia: A Systematic Literature Review. -- Systematic Review of Machine

Learning Algorithms in Cystic Fibrosis Diagnosis. -- Machine Learning Approaches for Predicting Gender Disparity in STEM Programs: Systematic Review. -- Audio and Image Interpretation. -- DeepFakesUG: Detecting Counterfeit Ugandan Banknotes Using Deep Learning. -- Speaker Identification in Amharic Language Using Spectrogram Images: Exploring Deep Learning Techniques. -- AI in Engineering. -- A Survey on Task Offloading and Resource Provisioning Approaches in VFCNs. -- Intelligent Fault Diagnosis Method for Bearings Using Deep Transfer Learning on Time-Series Vibration Data Under Varying Load Conditions. -- Natural Language Processing, Text and Speech Processing. -- Neural Machine Translation for Afaan Oromo - Amharic Language Pair Using Transformer and RNN (LSTM) Models. -- Automatic Amharic-Tigrigna Translation Using Statistical Machine Translation Approach. -- Developing Bidirectional English-Anuak Machine Translation using a Deep Learning Approach. -- Automating Table of Contents Structuring: Leveraging GPT-3.5 and Donut for Efficient Document Indexing. -- Semantically Corrected Amharic Automatic Speech Recognition.

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### Sommario/riassunto

This volume constitutes the proceedings of Third Pan-African Conference on Artificial Intelligence, PanAfriCon AI 2024, held in Addis Ababa, Ethiopia, during October 8–9, 2024. The 15 full papers presented were thoroughly reviewed and selected from 66 submissions. They are organized in the following topical sections: Cyber Security; AI in Medical, Biology & Sociology; Audio and Image Interpretation; AI in Engineering; and Natural Language Processing, Text and Speech Processing.

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