

1. Record Nr.	UNINA9911049115803321
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Titolo	Data Science, AI and Applications : First International Conference, ICDSAIA 2025, Dhaka, Bangladesh, July 18–19, 2025, Proceedings, Part II // edited by Shivakumara Palaiahnakote, Rajesh Palit, Mo Saraee, Pradeep K. Atrey, Xiang Bai, Balasubramanian Raman
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	3-032-11352-0
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (736 pages)
Collana	Communications in Computer and Information Science, , 1865-0937 ; ; 2682
Altri autori (Persone)	Palaiahnakote
Disciplina	006.3
Soggetti	Artificial intelligence Artificial intelligence - Data processing Machine learning Computer vision Artificial Intelligence Data Science Machine Learning Computer Vision
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Part-vol-I. Part-vol-II. -- Hybrid BiLSTM-BiGRU Model for Classification of Bangladeshi Dialects. -- Efficient Chicken Audio Classification Using Swin Transformer Features and Harmony-Optimized Random Forest. -- Restoring Rhythm: Punctuation Restoration Using Transformer Models for Bangla, a Low-Resource Language. -- Explainable Hybrid Convolutional Networks for Accurate Malaria Diagnosis in Blood Smear Images. -- Neural Networks with Neuroplasticity: Adaptive Learning through Connection Pruning and Hebbian Updates. -- A Novel Hybrid GLDNN Architecture for Bangla Dialect Identification. -- Ethical Dilemmas in EdTech: Student Perspectives on Data Privacy in Online Learning Platforms. -- Toward Quantum NLP: A Transfer Learning-Based BERT Transformer-QML Framework for Spam Text Semantics Modeling. -- A Neural Network

Based Sockstress DDoS Detection System. -- Deep Learning-Based Effective Anomaly Detection in PWR-Type Nuclear Power Plants. -- Ensemble Machine Learning-Based Approach to Predict Human Mental States with Optimized Feature Selection and Data Balancing. -- Mortality Prediction in Pediatric Respiratory Disorders Using Ensemble Machine Learning and Explainable Artificial Intelligence. -- HairLossMultinet: A Multi Scale Feature Fusion Method using Deep Learning Approach. -- AcneMultiNet: A Deep Learning-Based Hybrid Architecture for Acne Detection. -- Graph-Based Intrusion Detection for CAN Bus Security: An Explainable AI Approach. -- Mitigating Intersectional Bias in AI Recruitment: The HITHIRE Model for Ethical Hiring in Saudi Arabia. -- Comparative Evaluation of Machine Learning and Signature-Based NIDS for Multi-Class and Binary Threat Detection. -- Pneumonia Detection from Chest X-Ray Images Based on Deep Learning. -- Assessing the Effectiveness of Supervised Learning Models in Predicting Risks of Diabetes and Cardiovascular Disease with Explainability Analysis. -- BanglaSentNet: A Hybrid Deep Learning Framework for Multi-Aspect Sentiment Analysis in Bangla E-Commerce Reviews. -- Evaluating the Effectiveness of Large Language Models in Multi-Document Summarization of Bangla News Articles. -- A Blockchain-Based Voting System Using Hyperledger Fabric with a React Interface. -- AIMA: An Agentic AI Approach to Vulnerability Scanning of Higher-Education Assessment. -- A Hybrid System for Robust Santali-English Language Identification. -- Style Transfer Using Generative Adversarial Network: Tagore to Nazrul. -- A Deep Feature Extraction and Optimization Framework for ECG Classification via Pretrained Vision Networks. -- Design and implementation of a Hybrid Fall Detection model: Combining Faster R-CNN Inception V2 with YOLO Object Detection Algorithms in Surveillance Systems. -- A Systems Biology Approach to Identify Shared Genetic Signatures between Dengue and Comorbidities. -- Accessible AI-Navigation for the Visually Impaired: State, UX & Directions. -- Ensemble Learning-Based Framework for Anemia Screening Using Clinical Hematological Parameters. -- MultiNet Ensemble: A Deep Learning Approach for Accurate Malaria Detection Using Microscopic Images. -- Bangla Speech Emotion Recognition Using 3D-CNN: A Multi-Corpus and Cross-Lingual Study. -- An Evaluation of LLM Tools for Continuous Quality Improvement in Outcome-Based Education. Part-vol-III.

Sommario/riassunto

The three-volume set CCIS 2681–2683 constitutes the post-conference proceedings of the First International Conference on Data Science, Artificial Intelligence and Applications, ICDSAIA 2025, held in Dhaka, Bangladesh, during July 18–19, 2025. The 99 full papers included in this book were carefully reviewed and selected from 190 submissions. They focus on latest advancements in data science, artificial intelligence (AI), and their applications across diverse sectors—including healthcare, education, finance, governance, agriculture, and sustainable development—highlighting its potential to solve pressing societal challenges and accelerate progress toward the Sustainable Development Goals (SDGs).
