

1. Record Nr.	UNINA9911047689503321
Autore	Nguyen Ngoc Thanh
Titolo	Computational Intelligence in Engineering Science : First International Conference, ICCIES 2025, Ho Chi Minh City, Vietnam, July 23–25, 2025, Proceedings, Part II // edited by Ngoc Thanh Nguyen, Van Huy Pham, Trong Dao Tran, Tzung-Pei Hong, Yannis Manolopoulos, Nhien An Le Khac, Phu Tran Tin
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2026
ISBN	3-031-98164-2
Edizione	[1st ed. 2026.]
Descrizione fisica	1 online resource (0 pages)
Collana	Communications in Computer and Information Science, , 1865-0937 ; ; 2585
Altri autori (Persone)	PhamVan Huy DaoTran Trong HongTzung-Pei ManolopoulosYannis Le KhacNhien An TinPhu Tran
Disciplina	005.3
Soggetti	Application software Computer and Information Systems Applications
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	-- Computer Vision. -- A Fusion-Based Deep Learning Approach for Enhanced Polyp Detection in Medical Imaging. -- Detection and Distribution Estimation of Rice Seedlings in Direct Seeding Conditions Using UAV-based Imagery. -- Visual-GCN: A Hybrid Graph-Based Recommender System for Fashion. -- Inception Vision Mamba UNet for Breast Ultrasound Tumor Segmentation. -- High-Precision 3D Insect Modeling with Photogrammetry: A Comparative Study. -- Efficient Wheat Head Detection via Lightweight Deep Learning with YOLOv5 Enhancements. -- Enhancing Video Anomaly Detection: Object-based Pseudo Anomalies and Memory Augmented Autoencoder. -- Smart Food Manufacturing: Integrating Deep Learning Models for Enhancing Efficiency in Broken Egg Detection. -- An End-to-end System based on Deep Learning for Oral Disease Detection. -- Application of YOLO

Models for Automated Object Detection: Comparison, Analysis, and Recommendations. -- Current Trends in Developing Parallel Corpora for Text-to-Sign Language Translation. -- Detecting Scratches in Microbiological Piping Using Usb Camera and Deep Learning. -- Explainable AI and Enhanced Fuzzy C-Means for Brain Tumor Detection. -- YOLO11n-RP: Lightweight deep learning model for the real-time detection based on YOLOv11. -- Natural Language Processing. -- Parallel Corpus Construction for Chinese and Vietnamese in Historical Texts. -- Insights into Customer Experience in Luxury Hotels: A Topic Modeling and Sentiment Analysis Approach. -- Enhancing Water Conservation through Voice-Activated Smart Irrigation: A User-Centric Approach for Sustainable Agriculture in Vietnam. -- Speech Synthesis on Mobile Device for Fon Language. -- A study on the application of Large Language Models for library security testing under low-resource conditions. -- Natural Language Processing and Data Analysis for Cybercriminal Attribution: Conti Ransomware Chats. -- Automated Question-Answer Generation for Evaluating Vietnamese RAG-based Approaches. -- Building Machine Translation for Ancient Vietnamese Texts into English with Low Resources. -- Improving Text Generation Using Multi-Step Queries. -- Combination of Traditional Methods for Ukrainian-Vietnamese Deep Translation Models. -- Applying Graph RAG: Enhancing Retrieval and Synthesis of Vietnamese Legal Text Information. -- Decision Support System for Drug Recognition and Disease Diagnosis. -- Pedagogically Anchored Code Clustering: Integrating Assignment Specifications with Control Flow and Structural Features. -- A Transformer-Based OCR for Vietnamese Handwritten Text Recognition. -- Saigon Tourism: A Domain-Specific Dataset for Question Answering Systems. -- SymQA: Enhanced Knowledge Graph Question Answering with Symbolic Program Generation and Execution.

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### Sommario/riassunto

This four-volume set constitutes the refereed proceedings of the First International Conference on Computational Intelligence in Engineering Science, ICCIES 2025, in Ho Chi Minh City, Vietnam, during July 23–25, 2025. The 115 full papers presented in these proceedings were carefully reviewed and selected from 210 submissions. The papers are organized in the following topical sections: Part I: Machine Learning; Wireless Networks (6G) Part II: Computer Vision; Natural Language Processing Part III: Intelligent Systems; Internet of Things Part IV: Machine Learning; Control Systems.

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