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	Nota di contenuto	-- Invited Talks. -- On Conditional Event Algebra for Probability Reasoning in System Design. -- Information Fusion as a Useful Tool to Estimate Parameters from Imprecise Data?. -- Machine Learning. -- Robust Classification in Bayesian Neural Networks. -- Nonparametric Estimation using Kolmogorov-Arnold Network . -- A Local PCA Model Induced from Linear Fuzzy Clustering With Cluster Separation. -- A Revised Method on Judging Abstract Shape of a Curve on a Two-Dimensional Plane. -- SMC-PATE: A Secure Enhanced Private Aggregation of Teacher Ensembles with Secure Multiparty Computation. -- Self-Explaining Neural Network for Multi-Criteria Sentiment Analysis. -- A Multimodal Deep Ensemble Framework for Skin Lesion Classification. -- Pattern Recognition and Data Analysis. -- Fourier-Enhanced Student-Teacher Distillation for Semi-Supervised Medical Image Segmentation. -- Real-Time Monitoring and Anomaly Detection

in Server Lab Environments Using ESP32 DevKit and VAE-Bi-LSTM Hybrid Model. -- Onboarding Process from Power-Up to Motion Detection Using ESP32-EYE: A Quick and Comprehensive Approach. -- Enhancing Iris Verification through Multiple Distance Measurement Fusion and Enrollment Screening Mechanism. -- Enhance Biometric Authentication: Integrating Iris and Periocular Verification through Support Vector Classification. -- Lite-SCMamba: A Lightweight Model Applying Spatial and Channel Attention with Mamba Framework for Medical Image Segmentation. -- Classification of Breast Cancer for Mammography Using High Resolution Network. -- Improving Brain Disease Classification Accuracy using Ensemble Learning. -- Lung Cancer Detection Using Deep Neural Networks And Radiological Imaging. -- Integration Vision-Language Models for Feature Extraction in Multi-Camera Multi-Object Tracking. -- Applications. -- Enhance Air Quality Index Prediction with Inception Time - BiLSTM Model and Huber Loss. -- Enhancing Pose Adaptability in Virtual Try-On Systems. -- MiniMedMind: Small-Scale LLM for High-Performance Medical VQA on Chest X-ray. -- Enhanced Human Action Recognition from Synthetic UAVs Data Using Landmark Extraction and Mamba-based Model. -- Anti-spoofing Using ResNet50 with Linear Discriminant Analysis for Automatic Speaker Verification. -- Vietnamese Receipt Information Extraction Using OCR and Deep Learning: A Hybrid Approach with Fuzzy CMeans and PhoBERTv2. -- Enhancing Vietnamese Mental Health Question-Answering Systems: Adaptive Retrieval Augmented Generation Pipeline and Data Augmentation for Large Language Models. -- Real-time Wildfire-prone Area Monitoring and Early Warning System Based on Two-stage YOLO-based Smoke Detection Model. -- Water Surface Level Estimation Based on the Fast Segment Anything Model for Coastal Monitoring Systems.

| Sommario/riassunto | This two-volume set constitutes the proceedings of the 11th International Symposium on Integrated Uncertainty in Knowledge Modelling and Decision Making, IUKM 2025, held in Ho Chi Minh City, Vietnam, during March 17-19, 2025. The 55 full papers in this book were carefully reviewed and selected from 116 submissions. They were organized in topical sections as follows: Part I: Invited Talks; Machine Learning; Pattern Recognition and Data Analysis; Applications. Part II: Uncertainty Management and Decision Making; Optimization and Statistical Methods; Applications. |