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Nota di contenuto	Prediction and Recommendation -- F2DeepRS: A Deep Recommendation Framework Applied to ICRC Platforms -- A Novel Rule-based Online Judge Recommender System to Promote Computer Programming Education -- Using Machine Learning to Predict Salaries of Major League Baseball Players -- Efficient Prediction of Discharge and Water Levels Using Ensemble Learning and Singular-Spectrum Analysis-based Denoising -- An Efficient Transformer-based Model for Vietnamese Punctuation Prediction -- Study of Hybridized Support Vector Regression Based Flood Susceptibility Mapping for Bangladesh -- A Fusion Approach for Paper Submission Recommendation System -- One-class Classification Approach using Feature-slide Prediction Subtask for Feature Data -- Data Management, Clustering and Classification -- A Novel Approach for Enhancing Vietnamese Sentiment Classification -- Consistency Assessment of Datasets in the Context of a Problem Domain -- Effects of Performance Clustering in User Modelling for Learning Style Knowledge Representation -- A Novel

Perspective of Text Classification by Prolog-based Deductive Databases -- Improving Human Emotion Recognition from Emotive Videos using Geometric Data Augmentation -- Applying Method of Automatic Classification Tools to Make Effective Organizing of Photos Taken in Childcare Facilities -- Land Use/Land Cover Change Analysis Due to Tourism in the Chittagong Hill Tracts of Bangladesh -- Robotics -- Estimation Method for Operational Environment Complexity by a Robotic Team -- A Cloud-based Robot Framework for Indoor Object Identification using Unsupervised Segmentation Technique and Convolution Neural Network (CNN) -- Knowledge Based and Decision Support Systems -- The Concept of Information Graphs as a Tool to Identify Vulnerabilities in the Information Map of an Organization -- A Learning-Automata Based Solution for Non-Equal Partitioning: Partitions with Common GCD Sizes -- Building a Knowledge Graph with Inference for a Production Machine Using the Web of Things Standard -- Open-World Knowledge Graph Completion Benchmarks for Knowledge Discovery -- A Case-based Reasoning Approach for a Decision Support System in Manufacturing -- Online Automatic Assessment System for Program Code: Architecture and Experiences -- A Multi-Criteria Group Decision Making Procedure Based on a Multi-Granular Linguistic Approach for Changeable Scenarios -- Multimedia Applications -- Edge Based Method for Kidney Segmentation in MRI Scans -- Using the HAAR Wavelet Transform and K-nearest Neighbour Algorithm to Improve ECG Detection and Classification of Arrhythmia -- Query by Humming for Song Identification using Voice Isolation -- IMAGE-2-AQI: Aware of the Surrounding Air Qualification by a Few Images -- Advances in Sports Video Summarization – A Review based on Cricket Videos -- Augmented Audio Data in Improving Speech Emotion Classification Tasks -- Innovative Applications of Intelligent Systems -- Intelligent System of Mooring Planning based on Deep Q-learning -- Experimental Study on Predictive Modeling in the Gamification Marketing Application -- Pivot Point Based Intelligent System to Associate Creative Textual Artefacts -- Mood Support: A Personalized Intelligent Support Assignment System using an Agent-based Dynamic Configuration Model -- Continuous Build Outcome Prediction: A Small-N Experiment in Settings of a Real Software Project -- Jaskier: A Supporting Software Tool for Continuous Build Outcome Prediction Practice -- CPS and Industrial Applications -- Automated Diagnosis of Cyber-Physical Systems -- Quick Start And Adaptive New Server Monitor -- Map-matching based on HMM for Urban Traffic -- The Choice of AI Matters: Alternative Machine Learning Approaches for CPS Anomalies -- On-demand Knowledge Graphs for Standards-based Power Grid Data Provisioning -- Defect, Anomaly and Intrusion Detection -- Intrusion Detection Algorithm Based On SDA-ELM -- Explaining Defect Detection with Saliency Maps -- d-BTAI:the Dynamic-Binary Tree Based Anomaly Identification Algorithm for Industrial Systems -- Identifying Anomaly Work in Intralogistics Using BLE and LPWA -- Financial and Supply Chain Applications -- Impact Analysis of Proactive and Reactive Inventory Disruption Management on Supply Chain Performance -- A ML-based Stock Trading Model for Profit Predication -- Machine Learning-Based Empirical Investigation For Credit Scoring In Vietnam's Banking -- Bayesian Networks -- Unsupervised Co-training of Bayesian Networks for Condition Prediction -- BigData and Time Series Processing -- Implementation of Neural Network Regression Model for Faster Redshift Analysis on Cloud-based Spark Platform -- Target Class Supervised Sample Length and Training Sample Reduction of Univariate Time Series -- Information Retrieval and Relation Extraction -- Improving Relation Extraction via

Sommario/riassunto

This two-volume set of LNAI 12798 and 12799 constitutes the thoroughly refereed proceedings of the 34th International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems, IEA/AIE 2021, held virtually and in Kuala Lumpur, Malaysia, in July 2021. The 87 full papers and 19 short papers presented were carefully reviewed and selected from 145 submissions. The IEA/AIE 2021 conference will continue the tradition of emphasizing on applications of applied intelligent systems to solve real-life problems in all areas. These areas include the following: Part I, Artificial Intelligence Practices: Knowledge discovery and pattern mining; artificial intelligence and machine learning; semantic, topology, and ontology models; medical and health-related applications; graphic and social network analysis; signal and bioinformatics processing; evolutionary computation; attack security; natural language and text processing; fuzzy inference and theory; and sensor and communication networks Part II, From Theory to Practice: Prediction and recommendation; data management, clustering and classification; robotics; knowledge based and decision support systems; multimedia applications; innovative applications of intelligent systems; CPS and industrial applications; defect, anomaly and intrusion detection; financial and supply chain applications; Bayesian networks; BigData and time series processing; and information retrieval and relation extraction.