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Nota di contenuto	Knowledge Engineering and Semantic Web -- Toward Blockchain-Assisted Gami ed Crowdsourcing for Knowledge Refinement -- Predicting research collaboration trends based on the similarity of publications and relationship of scientists -- Assessing the in uence of con ict pro le properties on the quality of consensus -- OWL RL to Framework for Ontological Knowledge Integration preliminary transformation -- Natural Language Processing -- Cached Embedding with Random Selection: Optimization Technique to Improve Training Speed of Character-Aware Embedding -- A Comparative Study of Pretrained Language Models on Thai Social Text Categorization --

Comparative Analysis of Deep Learning Models for Myanmar Text Classification -- Open Information Extraction as Additional Source for Kazakh Ontology Generation -- Comparing High Dimensional Word Embeddings Trained on Medical Text to Bag-of-Words For Predicting Medical Codes -- Dyslexic Frequency Signatures in Relaxation and Letter Writing -- Decision Support and Control Systems -- A trading framework based on fuzzy Moore machines -- Fuzzy cation of repeatable trust game -- Online Auction and Optimal Stopping Game with Imperfect Observation -- Metaheuristics for Discovering Favourable Continuous Intravenous Insulin Rate Protocols from Historical Patient Data -- Continuous-Time Approach to Discrete-Time PID Control for UPS Inverters - a case study -- On stabilizability of discrete time systems with delay in control -- A Simple yet E cient MCSes Enumeration with SAT Oracles -- Alpha-N: Shortest Path Finder Automated Delivery Robot with Obstacle Detection and Avoiding System -- Image Representation for Cognitive Systems using SOEKS and DDNA: A case study for PPE compliance -- Harmony Search Algorithm with Dynamic Adjustment of PAR Values for Asymmetric Traveling Salesman Problem -- Graph-based Optimization of Public Lighting Retro -- Solving the Unrelated Parallel Machine Scheduling Problem with Setups Using Late Acceptance Hill Climbing -- Computer Vision Techniques -- Study on Digital Image Evolution of Artwork by Using Bio-Inspired Approaches -- 3D Model-Based 6D Object Pose Tracking on RGB Images -- Angiodysplasia Segmentation on Capsule Endoscopy Images Using AlbuNet with Squeeze-and-Excitation Blocks -- GOHAG: GANs Orchestration for Human Actions Generation -- Machine Learning and Data Mining -- Improved Finger-vein Classification Using Granular Support Vector Machine -- Mining Non-redundant Periodic Frequent Patterns -- On Robustness of Adaptive Random Forest Classifier on Biomedical Data Stream -- Sentence Writing Test for Parkinson Disease Modeling: Comparing Predictive Ability of Classifiers -- Confidence in prediction: an approach for dynamic weighted ensemble -- Towards personalized radio-chemotherapy (learning from clinical data vs. model optimization -- Inference Ability Assessment of Modi ed Differential Neural Computer -- Simple Quantum Circuits for Data Classification -- A DCA based algorithm for Feature Selection in Model-Based Clustering -- PRTNets: Cold-Start Recommendations Using Pairwise Ranking and Transfer Networks -- Deep Learning Models -- Dynamic Prototype Selection by Fusing Attention Mechanism for Few Shot Relation Classification -- An Enhanced CNN Model on Temporal Educational Data for Program-level Student Classification -- Ensemble of Multi-channel CNNs for Multi-Class Time-Series Classfication. Depth-Based Human Activity Recognition -- Post-training quantization methods for deep learning models -- Semi-supervised representation learning for 3D Point Clouds -- Stock Return Prediction Using Dual-Stage Attention Model with Stock Relation Inference -- Comparison of aggregation functions for 3D Point Clouds classification -- Benign and Malignant Skin Lesion Classifi cation Comparison for Three Deep-Learning Architectures -- Advanced Data Mining Techniques and Applications -- Automatic Parameter Setting in Hough Circle Transform -- Construction of an Intelligent Tennis Coach based on Kinect and a Sensor-based Tennis Racket -- Data Pre-Processing based on Convolutional Neural Network for Improving Precision of Indoor Positioning -- E cient Approaches for Updating Sequential Patterns -- Improving Accuracy of Peacock Identi cation in Deep Learning Model using Gaussian Mixture Model and Speeded Up Robust Features -- A Lifelong Sentiment Classifi cation Framework based on a Close Domain Lifelong Topic Modeling Method

-- Multiple Model Approach to Machine Learning -- Data preprocessing for DES-KNN and its application to imbalanced medical data classification -- Novel approach to Gentle AdaBoost Algorithm with Linear Weak Classfiers -- Automatic Natural Image Colorization -- Remote Usability Testing of Data Input Methods for Web Applications -- Machine Learning Models For Real Estate Appraisal Constructed Using Spline Trend Functions -- Application of Intelligent Methods to Constrained Problems Configuration of employee competences in IT projects. .

Sommario/riassunto

The two-volume set LNAI 12033 and 11034 constitutes the refereed proceedings of the 12th Asian Conference on Intelligent Information and Database Systems, ACIIDS 2020, held in Phuket, Thailand, in March 2020. The total of 105 full papers accepted for publication in these proceedings were carefully reviewed and selected from 285 submissions. The papers of the first volume are organized in the following topical sections: Knowledge Engineering and Semantic Web, Natural Language Processing, Decision Support and Control Systems, Computer Vision Techniques, Machine Learning and Data Mining, Deep Learning Models, Advanced Data Mining Techniques and Applications, Multiple Model Approach to Machine Learning. The papers of the second volume are divided into these topical sections: Application of Intelligent Methods to Constrained Problems, Automated Reasoning with Applications in Intelligent Systems, Current Trends in Arti cial Intelligence, Optimization, Learning,and Decision-Making in Bioinformatics and Bioengineering, Computer Vision and Intelligent Systems, Data Modelling and Processing for Industry 4.0, Intelligent Applications of Internet of Things and Data AnalysisTechnologies, Intelligent and Contextual Systems, Intelligent Systems and Algorithms in Information Sciences, Intelligent Supply Chains and e-Commerce, Privacy, Security and Trust in Arti cial Intelligence, Interactive Analysis of Image, Video and Motion Data in LifeSciences.