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Nota di contenuto	Intelligent Computing in Computer Vision -- BIDGAN: Blind Image Deblurring with Improved CycleGAN and Frequency Filtering -- Emotional interaction computing of actors in the mass incidents -- Multi Spatial Convolution Block for Lane Lines Semantic Segmentation -- VISFF: An Approach for Video Summarization Based on Feature Fusion -- Understanding Safety Based on Urban Perception -- Recognition of Multiple Panamanian Watermelon Varieties Based on Feature Extraction Analysis -- Javier E. Sánchez-Galán, Anel Henry, Fatima Rangel, Emmy Sáez, Kang-Hyun Jo and Danilo Cáceres-Hernández -- STDA-inf: Style Transfer for Data Augmentation Through In-data Training and Fusion Inference -- Abnormal Driving Detection Based on Human Pose Estimation and Facial Key Points Detection --

Uncertainty-guided pixel-level contrastive learning for biomarker segmentation in OCT images -- Wall-following Navigation for Mobile Robot Based on Random Forest and Genetic Algorithm -- A study of algorithms for controllingthe precision of bandwidth in EMI pre-testing -- Intelligent Control and Automation -- Flight Control for 6-DOF Quadrotor via Sliding Mode Integral Filter -- An Enhanced Finite-Control-Set Model Predictive Control Strategy for PWM Rectifiers with Filter Inductance Mismatch -- Deep Integration Navigation Technique Based on Strong Tracking UKF Algorithm -- The Application of Theoretical Variance#1 Method and Lifting Wavelet for Optic Gyroscopes -- Proposing a Novel Fixed-Time Non-Singular Terminal Sliding Mode Surface for Motion Tracking Control of Robot Manipulators -- A Neural Terminal Sliding Mode Control for tracking control of robotic manipulators in uncertain dynamical environments -- Fuzzy PID Controller for Accurate Power Sharing and Voltage Restoration in DC Microgrids -- Sensor-less Contact Force Estimation in Physical Human-Robot Interaction -- Model-Free Continuous Fuzzy Terminal Sliding Mode Control for Second-Order Nonlinear Systems -- Deep Q-learning with Explainable and Transferable Domain Rules -- Influence of interference and noise on indoor localization systems -- Exploration of Smart Medical Technology based on Intelligent Computing Methods -- Blockchain Based Trusted Identity Authentication in Ubiquitous Power Internet of Things -- Intelligent Modeling Technologies for Smart Cities -- A YOLOv3-based Learning Strategy for Vehicle-Thrown-Waste Identification -- Research on Chinese Word Segmentation Based on Conditional Random Fields -- Knowledge Discovery and Data Mining -- Financial Distress Detection and Interpretation with Semi-supervised System -- Solving online food delivery problem via an effective hybrid algorithm with intelligent batching strategy -- Graph Semantics Based Neighboring Attentional Entity Alignment for Knowledge Graphs -- An Improved CF tree Clustering Based on Tissue-Like P System -- Classification method of power consumption periods based on typical daily load curve -- A data processing method for load data of electric boiler with heat reservoir -- Aggregate model for power load forecasting based on conditional autoencoder -- Geographical Entity Community Discovery Based on Semantic Similarity -- Many-to-many Chinese ICD-9 Terminology Standardization based on Neural Networks -- Chinese Word Sense Disambiguation Based on Classification -- Research on the Authorship of Dream of the Red Chamber Based on Link Prediction -- Span Representation Generation Method in Entity-Relation Joint Extraction -- Machine Learning -- Prediction of Railway Freight Customer Churn Based on Deep Forest -- Multi-View of Data for Auto Judge Model in Online Dispute Resolution -- Multi-Task Learning with Riemannian Optimization -- Audio-Visual Salient Object Detection -- Research on Deep Neural Network Model Compression Based on Quantification Pruning and Huffmann Encoding -- Extreme Learning Machine Based on Double Kernel Risk-Sensitive Loss for Cancer Samples Classification -- Delay to Group in Food Delivery System: A Prediction Approach -- Variational EM Algorithm for Student-Mixtures of Gaussian Processes -- Ensemble learning with resampling for imbalanced data -- Dual-channel recalibration and feature fusion method for liver image classification -- Research on Path Planning Algorithm for Mobile Robot Based on Improved Reinforcement Learning -- OnSum: Extractive Single Document Summarization Using Ordered Neuron LSTM -- Diagnosing COVID-19 on Limited Data: A Comparative Study of Machine Learning Methods -- An Inverse QSAR Method Based on Decision Tree and Integer Programming -- A Link-Based Ensemble

Cluster Approach for Identifica-tion of cell types -- A defect detection method for diverse texture fabric based on CenterNet -- Accelerating Deep Reinforcement Learning via Hierarchical State Encoding with ELMs -- Mal PCASVM: Malonylation Residues Classification with principal component analysis Support Vector Machine -- Theoretical Computational Intelligence and Applications -- The influence of sliding windows basedon MM-6mAPred to identify DNA N6-methyladenine -- RF Bert: A classification model of Golgi apparatus based on TAPE_BERT extraction features -- PointPAVGG: An incremental algorithm for Extraction of Points' Positional feature using VGG on Point Clouds -- Predicting Course Score for Undergrade Students using Neural Networks -- Classification of heart sounds using MFCC and CNN.

Sommario/riassunto

This two-volume set of LNCS 12836 and LNCS 12837 constitutes - in conjunction with the volume LNAI 12838 - the refereed proceedings of the 17th International Conference on Intelligent Computing, ICIC 2021, held in Shenzhen, China in August 2021. The 192 full papers of the three proceedings volumes were carefully reviewed and selected from 458 submissions. The ICIC theme unifies the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications. The theme for this conference is “Advanced Intelligent Computing Methodologies and Applications.” The papers are organized in the following subsections: Intelligent Computing in Computer Vision, Intelligent Control and Automation, Intelligent Modeling Technologies for Smart Cities, Machine Learning, and Theoretical Computational Intelligence and Applications.