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Soggetti	Pattern recognition systems Computer vision Machine learning Computer networks Social sciences - Data processing Automated Pattern Recognition Computer Vision Machine Learning Computer Communication Networks Computer Application in Social and Behavioral Sciences
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Nota di contenuto	Adversarial Deep Learning with Stackelberg Games -- Enhance Feature Representation of Dual Networks for Attribute Prediction -- Data augment in imbalanced learning based on Generative Adversarial Networks -- A deep learning scheme for extracting pedestrian-parcel tuples from videos -- Support Matching: a Novel Regularization to Escape from Mode Collapse in GANs -- Patch-based Generative Adversarial Network Towards Retinal Vessel Segmentation -- A Gradient-based Algorithm to Deceive Deep Neural Networks -- Writing Style Adversarial Network for Handwritten Chinese Character Recognition -- Recovering Super-Resolution Generative Adversarial

Network for Underwater Images -- Hierarchical Attention CNN Model for Relation Extraction -- Fault Tolerant Broad Learning System -- Group Loss: An Efficient Strategy for Salient Object Detection -- PPGCN: a message selection based approach for graph classification -- Multi-Task Temporal Convolutional Network for Predicting Water Quality Sensor Data -- CNN-LSTM Neural Networks for Anomalous Database Intrusion Detection in RBAC-Administered Model -- MC-HDCNN: Computing the Stereo Matching Cost with a Hybrid Dilated Convolutional Neural Network -- Convolutional Neural Network to Detect Thorax Diseases from Multi-View Chest X-Rays -- Visual Speaker Authentication by a CNN-based Scheme with Discriminative Segment Analysis -- Intrusion Detection Using Temporal Convolutional Networks -- Empirical Study of Easy and Hard Examples in CNN Training -- GCNDA:Graph Convolutional Networks with Dual Attention Mechanisms for Aspect Based Sentiment Analysis -- A Wind Power Prediction Method Based on Deep Convolutional Network with Multiple Features -- Simple ConvNet Based on Bag of MLP-based Local Descriptors -- Convolutional LSTM: A Deep Learning Method for Motion Intention Recognition Based on Spatiotemporal EEG Data -- A Deep Neural Network Model for Rating Prediction based on Multi-layer Prediction and Multi-granularity Latent Feature Vectors -- LSPM: Joint Deep Modeling of Long-term Preference and Short-term Preference for Recommendation -- How we Achieved a Production Ready Slot Filling Deep Neural Network without Initial Natural Language Data -- Swarm Intelligence Based Ensemble Learning of Deep Neural Networks -- DSMRSeg:Dual-Stage feature pyramid and Mutil-Range context aggregation for real-time Semantic Segmentation -- Safety and Robustness of Deep Neural Networks Object Recognition under Generic Attacks -- Deep Neural Network Hyperparameter Optimization with Orthogonal Array Tuning -- Improving the Identification of Code Smells by Combining Structural and Semantic Information -- Learnable Gabor Convolutional Networks -- Deep Autoencoder on Personalized Facet Selection -- Attention-based Deep Q-Network in Complex Systems -- Effect of Data Augmentation and Lung Mask Segmentation for Automated Chest Radiograph Interpretation of Some Lung Diseases -- A Comparison Study of Deep Learning Techniques to Increase the Spatial Resolution of Photo-realistic Images -- Neural Architecture Search for Domestic Audio Tagging -- A Robust Embedding for Attributed Networks with Outliers -- Pay Attention to Deep Feature Fusion in Crowd Density Estimation -- Knowledge Reuse of Learning Agent Based on Factor Information of Behavioral Rules -- Community Based Node Embeddings for Networks -- Code Generation from Supervised Code Embeddings -- ComNE: Reinforcing Network Embedding with Community Learning -- D2PLS: A Novel Bilinear Method for Facial Feature Fusion -- Learning Network Representation via Ego-network-level Relationship -- DMCM: A Deep Multi-Channel Model for Dynamic Movie Recommendation -- Dance to Music Expressively: A Brain-inspired System Based on Audio-semantic Model for Cognitive Development of Robots -- Identifying EEG responses modulated by working memory loads from weighted phase lag index based functional connectivity microstates -- Combining Fisheye Camera with Odometer for Autonomous Parking -- Deep Learning and Statistical Modelsfor Time-Critical Pedestrian Behaviour Prediction -- Multi-class Human Body Parsing with Edge-Enhancement Network -- vUBM: Variational Universal Background Model for EEG-based Person Authentication -- Passenger Demographic Attributes Prediction for Human-centered Public Transport -- Spontaneous EEG classification using complex valued neural network -- Tongue Coating Classification

Based on Multiple-Instance Learning and Deep Features -- Machine Learning based Trust Model for Misbehaviour Detection in Internet-of-Vehicles -- Toward the Ontology-Based Security Verification and Validation Model for the Vehicular Domain -- Encephalographic Assessment of Situation Awareness in Teleoperation of Human-Swarm Teaming -- Adaptive Estimation of Human-Robot Interaction Force for Lower Limb Rehabilitation -- Effect of incomplete memorization in a computational model of human cognition -- Decoding Action Observation Using Complex Brain Networks from Simultaneously Recorded EEG-fNIRS Signals -- Characterizing and Identifying Autism Disorder Using Regional Connectivity Patterns and Extreme Gradient Boosting Classifier -- TP-ADMM: An Efficient Two-Stage Framework for Training Binary Neural Networks -- Fast and Accurate Lung Tumor Spotting and Segmentation for Boundary Delineation on CT Slices In A Coarse-To-Fine Framework -- Exploration of Different Attention Mechanisms on Medical Image Segmentation -- Machine learning based method for Huntington's disease gait pattern recognition -- Research on Deep Learning-based Intelligent Diagnosis Algorithms for OCT Medical Images of Macular Edema -- Using (automated) machine learning and drug prescrip-tion records to predict mortality and polypharmacy in older type 2 diabetes mellitus patients -- Deep Vision System for Clinical Gait Analysis in and out of Hospital -- Recognizing Facial Expressions of Occluded Faces using Convolutional Neural Networks -- Analysis of Key Face Parts to Detect Emotional Expression Using a Neural Network Model -- Multi-task Gated Contextual Cross-modal Attention Framework for Sentiment and Emotion Analysis -- A Cross-Culture Study on Multimodal Emotion Recognition Using Deep Learning -- Time-Frequency Deep Representation Learning for Speech Emotion Recognition Integrating Self-Attention -- Sparse Graphic Attention LSTM for EEG Emotion Recognition -- Dynamic Facial Stress Recognition in Temporal Convolutional Network -- A Comparison of CasPer Against Other ML Techniques for Stress Recognition -- On Explainable Flexible Fuzzy Recommender and Its Performance Evaluation Using the Akaike Information Criterion -- A Hybrid Evolutionary Algorithm with Taboo and Competition Strategies for Minimum Vertex Cover Problem -- An Ant Colony System for Carpool Service Problem with High Seating Capacity -- Enhancing Artificial Bee Colony Algorithm with Directional Information -- Using Evolutionary Algorithms for Hyperparameter Tuning and Network Reduction Techniques to Classify Core Porosity Classes based on Petrographical Descriptions -- Using an Evolutionary Algorithm to optimise the hyper-parameters of a cascading neural network -- Instruction Cognitive One-Shot Malware Outbreak Detection -- A Fast Algorithm for Constructing Phylogenetic Trees with Application to IoT Malware Clustering.

Sommario/riassunto

The two-volume set CCIS 1142 and 1143 constitutes thoroughly refereed contributions presented at the 26th International Conference on Neural Information Processing, ICONIP 2019, held in Sydney, Australia, in December 2019. For ICONIP 2019 a total of 345 papers was carefully reviewed and selected for publication out of 645 submissions. The 168 papers included in this volume set were organized in topical sections as follows: adversarial networks and learning; convolutional neural networks; deep neural networks; embeddings and feature fusion; human centred computing; human centred computing and medicine; human centred computing for emotion; hybrid models; image processing by neural techniques; learning from incomplete data; model compression and optimization; neural network applications; neural network models; semantic and

graph based approaches; social network computing; spiking neuron and related models; text computing using neural techniques; time-series and related models; and unsupervised neural models.