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: Applications -- Transfer Learning Based Long Short-Term Memory Network for Financial Time Series Forecasting -- ScriptNet: A Two Stream CNN for Script Identification in Camera-based Document Images -- Projected Entangled Pair State Tensor Network for Colour Image and Video Completion -- Artificial Neural Networks for Downbeat Estimation and Varying Tempo Induction in Music Signals -- FedSpam: Privacy Preserving SMS Spam Detection -- Point Cloud Completion with Difference-aware Point Voting -- External Knowledge and Data Augmentation Enhanced Model for Chinese Short Text Matching -- Improving Oracle Bone Characters Recognition via A CycleGAN-based Data Augmentation Method -- Local-Global Interaction and Progressive Aggregation for Video Salient Object Detection -- A Fast Stain Normalization Network for Cervical Papanicolaou Images -- MEW: Evading Ownership Detection Against Deep Learning Models -- Spatial-Temporal Graph Transformer for Skeleton-Based Sign Language Recognition -- Combining Traffic Assignment and Traffic Signal Control for Online Traffic Flow Optimization -- Convolve with Wind: Parallelized Line Integral Convolutional Network for Ultra Short-term Wind Power Prediction of Multi-wind Turbines -- BOTTOM-UP TRANSFORMER REASONING

NETWORK FOR TEXT-IMAGE RETRIEVAL -- Graph Attention Mixup Transformer for Graph Classification -- Frequency Spectrum with Multi-head Attention for Face Forgery Detection -- Autoencoder-based Attribute Noise Handling Method for Medical Data -- A Machine-Reading-Comprehension Method for Named Entity Recognition in Legal Documents -- Cross-Modality Visible-Infrared Person Re-Identification with Multi-Scale Attention and Part Aggregation -- Bearing Fault Diagnosis based on Dynamic Convolution and Multi-scale Gradient Information Aggregation Under Variable Working Conditions -- Automatic Language Identification for Celtic Texts -- Span Detection for Kinematics Word Problems -- Emotion-aided Multi-modal Personality Prediction System -- Kernel Inversed Pyramidal Resizing Network for Efficient Pavement Distress Recognition -- Deep Global and Local Matching Network for Implicit Recommendation -- A Bi-Hemisphere Capsule Network Model for Cross-Subject EEG Emotion Recognition -- Attention 3D Fully Convolutional Neural Network for False Positive Reduction of Lung Nodule Detection -- A Novel Optimized Context-Based Deep Architecture for Scene Parsing -- Resnet-2D-ConvLstm: A means to extract features from Hyperspectral Image -- An application of MCDA methods in sustainable information systems -- Decision support system for sustainable transport development -- Image Anomaly Detection and Localization Using Masked Autoencoder -- Cross-domain Object Detection Model via Contrastive Learning with Style Transfer -- A Spatio-temporal Event Data Augmentation Method for Dynamic Vision Sensor -- FCFNet: a Network Fusing Color Features and Focal Loss for Diabetic Foot Ulcer Image Classification -- ClusterUDA: Latent Space Clustering in Unsupervised Domain Adaption for Pulmonary Nodule Detection -- Image Captioning with Local-Global Visual Interaction Network -- Rethinking Voxelization and Classification for 3D Object Detection -- GhostVec: Directly Extracting Speaker Embedding from End-to-End Speech Recognition Model using Adversarial Examples -- An End-to-End Chinese and Japanese Bilingual Speech Recognition Systems with Shared Character Decomposition -- An Unsupervised Short- and Long-Term Mask Representation for Multivariate Time Series Anomaly Detection -- Investigating Effective Domain Adaptation Method for Speaker Verification Task -- Real-time inertial foot-ground contact detection based on SVM -- Channel Spatial Collaborative Attention Network for Fine-grained Classification of Cervical Cells -- Multimodal Learning of Audio-visual Speech Recognition with Liquid State Machine -- Identification of Fake News: A Semantic Driven Technique for Transfer Domain -- Portrait Matting Network with Essential Feature Mining and Fusion -- Hybrid-Supervised Network for 3D Renal Tumor Segmentation in Abdominal CT -- Double Attention-based Lightweight Network for Plant Pest Recognition -- A Deep Investigation of RNN and Self-attention for the Cyrillic-Traditional Mongolian Bidirectional Conversion -- Sequential Recommendation based on Multi-View Graph Neural Networks -- Cross-Domain Reinforcement Learning for Sentiment Analysis -- PPIR-Net: An Underwater Image Restoration Framework Using Physical Priors -- Denoising fMRI Message on Population Graph for Multi-site Disease Prediction -- CATM: Candidate-aware Temporal Multi-head Self-attention News Recommendation Model -- Variational Graph Embedding for Community Detection -- Counterfactual Causal Adversarial Networks for Domain Adaptation.

| Sommario/riassunto | The four-volume set CCIS 1791, 1792, 1793 and 1794 constitutes the refereed proceedings of the 29th International Conference on Neural Information Processing, ICONIP 2022, held as a virtual event, November |

22–26, 2022. The 213 papers presented in the proceedings set were carefully reviewed and selected from 810 submissions. They were organized in topical sections as follows: Theory and Algorithms; Cognitive Neurosciences; Human Centered Computing; and Applications. The ICONIP conference aims to provide a leading international forum for researchers, scientists, and industry professionals who are working in neuroscience, neural networks, deep learning, and related fields to share their new ideas, progress, and achievements.