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Soggetti	Artificial intelligence Computer engineering Computer networks Application software Computers Image processing—Digital techniques Computer vision Artificial Intelligence Computer Engineering and Networks Computer and Information Systems Applications Computing Milieux Computer Imaging, Vision, Pattern Recognition and Graphics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Model Compression I -- Fine-grained Channel Pruning for Deep Residual Neural Networks -- A Lightweight Fully Convolutional Neural Network of High Accuracy Surface Defect Detection -- Detecting Uncertain BNN Outputs on FPGA Using Monte Carlo Dropout Sampling -- Neural network compression via learnable wavelet transforms -- Fast and Robust Compression of Deep Convolutional Neural Networks -- Model Compression II -- Pruning artificial neural networks: a way to find well-generalizing, high-entropy sharp minima -- Log-Nets:

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Tuning Deep Neural Network's hyperparameters constrained to  
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-- Time Series Clustering with Deep Reservoir Computing --  
ReservoirPy: an Efficient and User-Friendly Library to Design Echo State  
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Adaptive, Neural Robot Control -- Path Planning on 3D Spiking Neural  
Networks -- CABIN: A Novel Cooperative Attention Based Location  
Prediction Network Using Internal-External Trajectory Dependencies --  
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computational model of CA1 pyramidal cell -- Adaptive Chemotaxis for improved Contour Tracking using Spiking Neural Networks -- Text Understanding I -- Mental Imagery-Driven Neural Network to Enhance Representation for Implicit Discourse Relation Recognition -- Adaptive Convolution Kernel for Text Classification via Multi-Channel Representations -- Text generation in discrete space -- Short text processing for analyzing user portraits: A dynamic combination -- Text Understanding II -- A Hierarchical Fine-Tuning Approach Based on Joint Embedding of Words and Parent Categories for Hierarchical Multi-label Text Classification -- Boosting Tricks for Word Mover's Distance -- Embedding Compression with Right Triangle Similarity Transformations -- Neural Networks for Detecting Irrelevant Questions during Visual Question Answering -- F-Measure Optimisation and Label Regularisation for Energy-based Neural Dialogue State Tracking Models -- Unsupervised Learning -- Unsupervised Change Detection using Joint Autoencoders for Age-Related Macular Degeneration Progression -- A fast algorithm to find Best Matching Units in Self-Organizing Maps -- Tumor Characterization using Unsupervised Learning of Mathematical Relations within Breast Cancer Data -- Balanced SAM-kNN: Online Learning with Heterogeneous Drift and Imbalanced Data -- A Rigorous Link Between Self-Organizing Maps and Gaussian Mixture Models -- Collaborative Clustering through Optimal Transport.

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Sommario/riassunto

The proceedings set LNCS 12396 and 12397 constitute the proceedings of the 29th International Conference on Artificial Neural Networks, ICANN 2020, held in Bratislava, Slovakia, in September 2020. \* The total of 139 full papers presented in these proceedings was carefully reviewed and selected from 249 submissions. They were organized in 2 volumes focusing on topics such as adversarial machine learning, bioinformatics and biosignal analysis, cognitive models, neural network theory and information theoretic learning, and robotics and neural models of perception and action. \*The conference was postponed to 2021 due to the COVID-19 pandemic.

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