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Nota di contenuto	Applications of Computer Vision, Vision for X -- Query by Strings and Return Ranking Word Regions with Only One Look -- Single-Image Camera Response Function Using Prediction Consistency and Gradual Refinement -- FootNet: An efficient convolutional network for multiview 3D foot reconstruction -- Synthetic-to-real domain adaptation for lane detection -- RAF-AU Database: In-the-Wild Facial Expressions with Subjective Emotion Judgement and Objective AU Annotations -- DoFNet: Depth of Field Difference Learning for Detecting Image Forgery -- Explaining image classifiers by removing

input features using generative models -- Do We Need Sound for Sound Source Localization? -- Modular Graph Attention Network for Complex Visual Relational Reasoning -- CloTH-VTON: Clothing Three-dimensional reconstruction for Hybrid image-based Virtual Try-ON -- Multi-label X-ray Imagery Classification via Bottom-up Attention and Meta Fusion -- Learning End-to-End Action Interaction by Paired-Embedding Data Augmentation -- Sketch-to-Art: Synthesizing Stylized Art Images From Sketches -- Road Obstacle Detection Method Based on an Autoencoder with Semantic Segmentation -- SpotPatch: Parameter-Efficient Transfer Learning for Mobile Object Detection -- Trainable Structure Tensors for Autonomous Baggage Threat Detection Under Extreme Occlusion -- Audiovisual Transformer with Instance Attention for Audio-Visual Event Localization -- Watch, read and lookup: learning to spot signs from multiple supervisors -- Domain-transferred Face Augmentation Network -- Pose Correction Algorithm for Relative Frames between Keyframes in SLAM -- Dense-Scale Feature Learning in Person Re-Identification -- Class-incremental Learning with Rectified Feature-Graph Preservation -- Patch SVDD: Patch-level SVDD for Anomaly Detection and Segmentation -- Towards Robust Fine-grained Recognition by Maximal Separation of Discriminative Features -- Visually Guided Sound Source Separation using Cascaded Opponent Filter Network -- Channel Recurrent Attention Networks for Video Pedestrian Retrieval -- In Defense of LSTMs for Addressing Multiple Instance Learning Problems -- Addressing Class Imbalance in Scene Graph Parsing by Learning to Contrast and Score -- Show, Conceive and Tell: Image Captioning with Prospective Linguistic Information -- Datasets and Performance Analysis -- RGB-T Crowd Counting from Drone: A Benchmark and MMCCN Network -- Webly Supervised Semantic Embeddings for Large Scale Zero-Shot Learning -- Compensating for the Lack of Extra Training Data by Learning Extra Representation -- Class-Wise Difficulty-Balanced Loss for Solving Class-Imbalance -- OpenTraj: Assessing Prediction Complexity in Human Trajectories Datasets -- Pre-training without Natural Images -- TTPLA: An Aerial-Image Dataset for Detection and Segmentation of Transmission Towers and Power Lines -- A Day on Campus - An Anomaly Detection Dataset for Events in a Single Camera -- A Benchmark and Baseline for Language-Driven Image Editing -- Self-supervised Learning of Orc-Bert Augmentator for Recognizing Few-Shot Oracle Characters -- Understanding Motion in Sign Language: A New Structured Translation Dataset -- FreezeNet: Full Performance by Reduced Storage Costs.

Sommario/riassunto

The six volume set of LNCS 12622-12627 constitutes the proceedings of the 15th Asian Conference on Computer Vision, ACCV 2020, held in Kyoto, Japan, in November/ December 2020.* The total of 254 contributions was carefully reviewed and selected from 768 submissions during two rounds of reviewing and improvement. The papers focus on the following topics: Part I: 3D computer vision; segmentation and grouping Part II: low-level vision, image processing; motion and tracking Part III: recognition and detection; optimization, statistical methods, and learning; robot vision Part IV: deep learning for computer vision, generative models for computer vision Part V: face, pose, action, and gesture; video analysis and event recognition; biomedical image analysis Part VI: applications of computer vision; vision for X; datasets and performance analysis *The conference was held virtually.