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Nota di contenuto	Attention Systems -- Thermal Image Super-Resolution Using Second-Order Channel Attention with Varying Receptive Fields -- MARL: Multimodal Attentional Representation Learning for Disease Prediction -- Object Localization with Attribute Preference based on Top-Down Attention -- See the silence: improving visual-only voice activity detection by optical flow and RGB fusion -- Classification and Detection -- Score to Learn: a Comparative Analysis of Scoring Functions for Active Learning in Robotics -- Enhancing the performance of image classification through features automatically learned from depth-maps -- Object Detection on TPU Accelerated Embedded Devices -- Tackling Inter-Class Similarity and Intra-Class Variance for Microscopic Image-

based Classification -- Semantic Interpretation -- Measuring the Sim2Real gap in 3D Object classification for different 3D data representation -- Spatially-Constrained Semantic Segmentation with Topological aps and Visual mbeddings -- Knowledge-enabled generation of semantically annotated image sequences of manipulation activities from VR demonstrations -- Make It Easier: An Empirical Simplification of a Deep 3D Segmentation Network for Human Body Parts -- Video and Motion Analysis -- Video Popularity Prediction through Fusing Early Viewership with Video Content -- Action Prediction during Human-Object Interaction based on DTW and Early Fusion of Human and Object Representations -- GridTrack: Detection and Tracking of Multiple Objects in Dynamic Occupancy Grids -- An Efficient Video Desnowing and Deraining Method with a Novel Variant Dataset -- Computer Vision Systems in Agriculture -- Robust Counting of Soft Fruit through Occlusions with Re-identification -- Non-destructive Soft Fruit Mass and Volume Estimation for Phenotyping in Horticulture -- Learning Image-based Contaminant Detection in Wool Fleece from Noisy Annotations -- Active Learning for Crop-Weed Discrimination by Image Classification from Convolutional Neural Network’s Feature Pyramid Levels.

Sommario/riassunto

This book constitutes the refereed proceedings of the 13th International Conference on Computer Vision Systems, ICVS 2021, held in September 2021. Due to COVID-19 pandemic the conference was held virtually. The 20 papers presented were carefully reviewed and selected from 29 submissions. cover a broad spectrum of issues falling under the wider scope of computer vision in real-world applications, including among others, vision systems for robotics, autonomous vehicles, agriculture and medicine. In this volume, the papers are organized into the sections: attention systems; classification and detection; semantic interpretation; video and motion analysis; computer vision systems in agriculture.