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Augmentation -- Model regularisation for skin lesion symmetry classification: SymDerm v2.0 -- Robust Adversarial Defense: Use of Auto-Inpainting -- Generalized Median Computation for Consensus Learning: A Brief Survey -- Efficient Representation Learning for Inner Speech Domain Generalization -- Using Diffusion Models for Dataset Generation: Prompt Engineering vs. Fine-tuning -- Towards Robust Colour Texture Classification with Limited Training Data -- Explaining StyleGAN Synthesized Swimmer Images in Low-Dimensional Space -- Interpolation Kernel Machines: Reducing Multiclass to Binary -- Knowledge Guided Deep Learning for General-Purpose Computer Vision Applications -- Teaching Computer Programming with Mathematics for Generating Digital Videos and Machine Learning Optimization -- Performance characterization of 2D CNN features for partial video copy detection -- Semi-Automated Patch-based Segmentation of Different Size Groups of Brain Metastases in MRI Images -- Texture analysis contribution to evaluating the common carotid artery's stroke risk using structural equation modeling -- Object Recognition and Segmentation -- Domain-Adaptive Data Synthesis for Large-Scale Supermarket Product Recognition -- PSM-PS: Part-based Signal Modulation for Person Search -- Fast Video Instance Segmentation via Recurrent Encoder-based Transformers -- Fast Context Adaptation for Video Object Segmentation -- ALPR - A Method for Identifying License Plates using Sequential Information -- Non-separable Moments in 3D.

Sommario/riassunto	This volume LNCS 14184 and 14185 constitutes the refereed proceedings of the 20th International Conference, CAIP 2023, in Limassol, Cyprus, in September 2023. The 54 full papers presented were carefully reviewed and selected from 67 submissions. They were organized in the following section as follows: Part I-:PAR Contest 2023; Deep Learning; Machine Learning for Image and Pattern Analysis; and Object Recognition and Segmentation. Part II : Biometrics- Human Pose Estimation- Action Recognition; Biomedical Image and Pattern Analysis; and General Vision- AI Applications.