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Altri autori (Persone)	ChorasMicha KozikRafa KsieniewiczPawe MarciniakTomasz TrajdosPawe
Disciplina	006.3
Soggetti	Computational intelligence Artificial intelligence Pattern recognition systems Signal processing Computer vision Computational Intelligence Artificial Intelligence Automated Pattern Recognition Digital and Analog Signal Processing Computer Vision
Lingua di pubblicazione	Inglese
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Nota di contenuto	A novel approach of multi-string parsing for syntactic pattern recognition -- Hollow n-grams vectorizer for Natural Language Processing problems -- A non-deep approach to classifying movie genres based on multimodal data -- Incremental Extreme Learning Machine for Binary Data Stream Classification -- Interpreting Intrusions - The Role of Explainability in AI-based Intrusion Detection System --

Real-time deformation of three-dimensional volumetric models using mesh models -- Hyperparameters Optimization using GridSearchCV Method for TinyML models -- Analysis of the Possibility to Employ Relationship Between the Problem Complexity and the Classification Quality as Model Optimization Proxy -- Deep Learning for pit detection in cherries -- Image analysis system for augmented reality games -- Coregistration of selected sequences in MRI imaging based on edge analysis of image difference -- Actinic Keratosis Prediction Based on Deep Learning Methods -- A New Assessment of Convolutional Neural Networks for Texture Directionality Detection -- Knowledge Distillation with Relative Representations for Image Representation Learning -- An Approach for CT Image Conversion Using Filtering Based on Quaternion Mathematics -- Exploring Text-Guided Synthetic Distribution Shifts for Robust Image Classification -- Color Tracking Application Using AI-based Docker Container Scheduling in Fog Computing -- Air pollution monitoring and information distribution system -- Detection of conspiracy theories from tweets using NLI-based Zero Shot Text Classification models -- Battery management system for Polish hybrid residential photovoltaic power plants -- Document Annotation Tool For News Content Analysis -- Dynamic time warping technique applied to the user's intent recognition for myoelectric-based control of upper limb prosthesis -- A Hybrid Long Short-Term Memory Network Based on Wind and Rain Sensitive and its Application to PM2.5 Prediction.

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#### Sommario/riassunto

This book presents a collection of high-quality research papers accepted to multi-conference consisting of the 13th International Conference on Image Processing and Communications (IP&C 2023), the 13th International Conference on Computer Recognition Systems (CORES 2023) held jointly in Wroclaw, Poland (virtually), in June 2023. The accepted papers address current computer science and computer systems-related technological challenges and solutions, as well as many practical applications and results. The first part of the book deals with advances in pattern recognition and classifiers, the second part is devoted to image processing and computer vision, while the third part addresses practical applications of computer recognition systems. We believe this book will be interesting for researchers and practitioners in many fields of computer science and IT applications.

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