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Nota di contenuto	Adaptive Modeling, Neuroscience -- ‘If Only I Would Have Done That...’: A Controlled Adaptive Network Model for Learning by Counterfactual Thinking -- A Computational Model for the Second-Order Adaptive Causal Relationships between Anxiety, Stress and Physical Exercise -- AI in Biomedical Applications -- ebioMelDB: Multi-modal database for melanoma and its application on estimating patient prognosis -- Improved Biomedical Entity Recognition via longer context modelling -- Scalable NPairLoss-based Deep-ECG for ECG Verification -- A Comparative Study of Embedded Feature Selection Methods on Microarray data -- AI Impacts/Big Data -- The AI4Media project: Use of

Next-generation Artificial Intelligence Technologies for Media Sector Applications -- Regression Predictive Model to analyze Big Data Analytics in Supply Chain Management -- Automated Machine Learning -- An Automated Machine Learning Approach for Predicting Chemical Laboratory Material Consumption -- An Ontology-Based Concept for Meta AutoML -- Object Migration Automata for Non-Equal Partitioning Problems with Known Partition Sizes -- Autonomous Agents -- Enhanced Security Framework for Enabling Facial Recognition in Autonomous Shuttles Public Transportation during COVID-19 -- Evaluating Task-General Resilience Mechanisms in a Multi-Robot Team Task -- Clustering -- A Multi-View Clustering Approach for Analysis of Streaming Data -- Efficient Approaches for Density-Based Spatial Clustering of Applications with Noise -- Self-organizing maps for optimized robotic trajectory planning applied to surface coating -- Convolutional Neural Networks -- An autoencoder convolutional neural network framework for Sarcopenia detection based on multi-frame ultrasound image slices -- Automatic Classification of XCT Images in Manufacturing -- Cross-lingual Approaches for Task-specific Dialogue ActRecognition -- Just-in-time Biomass Yield Estimation with Multi-Modal Data and Variable Patch Training Size -- Robustness testing of AI systems: A case study for traffic sign recognition -- Data Mining/ Word Counts -- BIBLIOBICLUSTER: A bicluster algorithm for Bibliometrics -- Topic identification via human interpretation of word clouds: The case of Instagram hashtags -- Deep Learning -- A Comparative Study of Deep Learning Techniques for Financial Indices Prediction -- An Effective Loss Function for Generating 3D Models from Single 2D Image without Rendering -- Collaborative Edge-Cloud Computing for Personalized Fall Detection -- Deep Dense and Convolutional Autoencoders for Machine Acoustic Anomaly Detection -- Neural Network Compression Through Shunt Connections and Knowledge Distillation for Semantic Segmentation Problems -- System-wide anomaly detection of industrial control systems via deep learning and correlation analysis -- Verification of Size Invariance in DNN Activations using Concept Embeddings -- Artificial Intelligence in Music Composition -- Deep Learning and AI for Optimization in 5GTechnology -- Fuzzy Modeling -- Intuitionistic Fuzzy Neural Network for Time Series Forecasting - The Case of Metal Prices -- Hyperdimensional Computing -- PQ-HDC: Projection-based Quantization Scheme for Flexible and Efficient Hyperdimensional Computing -- Hyperdimensional Computing with Learnable Projection for User Adaptation Framework -- Internet of Things/Internet of Energy -- ”SAVE” – an Integrated Approach of Personal and Home Safety for Active Assisted Living -- BEMS in the Era of Internet of Energy: A Review -- Machine Learning -- A Survey of Methods for Detection and Correction of Noisy Labels in Time Series Data -- An automated tool to support an intelligence learner management system using Learning Analytics and Machine Learning -- Classification of Point Clouds with Neural Networks and Continuum-Type Memories -- Cyber Supply Chain Threat Analysis and Prediction using Machine Learning and Ontology -- Intelligent Techniques and Hybrid SystemsExperiments Using the Acumen Modeling and Simulation Environment -- Predicting CO2 Emissions for Buildings Using Regression and Classification -- Robust Pose Estimation Based on Maximum Correntropy Criterion -- The Generative Adversarial Random Neural Network -- Using Machine Learning Methods to Predict Subscriber Churn of a Web-based Drug Information Platform -- Analysis and Prediction for House Sales Price Using a Hybrid Machine Learning Approach -- Multi Agent Systems -- Dynamic Plume Tracking Utilizing Symbiotic Heterogeneous Remote

Sensing Platforms -- Improving the flexibility of production scheduling in flat steel production through standard and AI-based approaches: challenges and perspectives -- Natural Language -- A comparative assessment of state-of-the-art methods for multilingual unsupervised keyphrase extraction -- An Approach Utilizing Linguistic Features for Fake News Detection -- CEA-TM: A Customer Experience Analysis framework based on Contextual-aware Topic Modelingapproach -- Machine Learning Meets Natural Language Processing - The story so far -- SemAI: A Novel Approach for Achieving Enhanced Semantic Interoperability in Public Policies -- Recommendation Systems -- Optimization of Multi-Stakeholder Recommender Systems for Diversity and Coverage -- Recommending Database Architectures For Social Queries: A Twitter Case Study -- Science4Fashion: An Autonomous Recommendation System for Fashion Designers -- Sentiment Analysis -- A two-step optimised BERT-based NLP algorithm for extracting sentiment from financial news -- Learning Sentiment-aware Trading Strategies for Bitcoin leveraging Deep Learning-based Financial News Analysis -- Smart Blockchain Applications/ Cybersecurity -- Federated Blockchained Supply Chain Management: A CyberSecurity and Privacy Framework -- Validation and Verification for Data Marketplaces.

Sommario/riassunto

This book constitutes the refereed proceedings of the 17th IFIP WG 12.5 International Conference on Artificial Intelligence Applications and Innovations, AIAI 2021, held virtually and in Hersonissos, Crete, Greece, in June 2021. The 50 full papers and 11 short papers presented were carefully reviewed and selected from 113 submissions. They cover a broad range of topics related to technical, legal, and ethical aspects of artificial intelligence systems and their applications and are organized in the following sections: adaptive modeling/ neuroscience; AI in biomedical applications; AI impacts/ big data; automated machine learning; autonomous agents; clustering; convolutional NN; data mining/ word counts; deep learning; fuzzy modeling; hyperdimensional computing; Internet of Things/ Internet of energy; machine learning; multi-agent systems; natural language; recommendation systems; sentiment analysis; and smart blockchain applications/ cybersecurity. Chapter “Improving the Flexibility of Production Scheduling in Flat Steel Production Through Standard and AI-based Approaches: Challenges and Perspective” is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.