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Soggetti	Artificial intelligence Computer networks Social sciences - Data processing Database management Data mining Information storage and retrieval systems Artificial Intelligence Computer Communication Networks Computer Application in Social and Behavioral Sciences Database Management Data Mining and Knowledge Discovery Information Storage and Retrieval
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	AI Ethics – Law -- The Ethos of Artificial Intelligence as a Legal Personality in a Globalized Space: Examining the Need to Overhaul the Post-Liberal Order -- Trustworthy AI Needs Unbiased Dictators! -- AI Constraints -- An Introduction of FD-Complete Constraints -- Backward-Forward Sequence Generative Network for Multiple Lexical Constraints -- Deep Learning - LSTM -- Deep Echo State Networks in

Industrial Applications -- Deepbots: A Webots-based Deep Reinforcement Learning Framework for Robotics -- Innovative Deep Neural Network Fusion for Pairwise Translation Evaluation -- Introducing an edge-native deep learning platform for exergames -- Investigating the problem of cryptocurrency price prediction - A deep learning approach -- Regularized Evolution for Macro Neural Architecture Search -- Using Multimodal Contextual Process Information for the Supervised Detection of Connector Lock Events -- A machine learning model to detect speech and reading pathologies -- Forecasting Hazard Level Of Air Pollutants Using LSTM's -- Fuzzy Algebra - Fuzzy Systems -- Hypotheses tests using non-asymptotic fuzzy estimators and fuzzy critical values -- Preservation of the Exchange Principle via Lattice Operations on  $(S,N)$ - Implications -- Versatile Internet of Things for Agriculture: An eXplainable AI Approach -- Machine Learning -- Acoustic Resonance Testing of Glass IV Bottles -- AI based Real-Time Signal Reconstruction for Wind Farm with SCADA Sensor Failure -- Autonomous Navigation for Drone Swarms in GPS-Denied Environments using Structured Learning -- Chemical Laboratories 4.0: A Two-stage Machine Learning System for Predicting the Arrival of Samples -- Predicting Physical Properties of Woven Fabrics via Automated Machine Learning and Textile Design and Finishing Features -- Real-time Surf Manoeuvres' Detection Using Smartphones' Inertial Sensors -- SDN-enabled IoT Anomaly Detection using Ensemble Learning -- Harnessing Social Interactions on Twitter for Smart Transportation Using Machine Learning -- Medical - Health System -- An intelligent cloud-based platform for effective monitoring of patients with psychotic disorders -- Applying Deep Learning to Predicting Dementia and Mild Cognitive Impairment -- Bridging the Gap between AI and Healthcare Sides: Towards Developing Clinically Relevant AI-Powered Diagnosis Systems -- Know Yourself: An Adaptive Causal Network Model for Therapeutic Intervention for Regaining Cognitive Control -- Multi-omics data and analytics integration in ovarian cancer -- Overlap-based Undersampling Method for Classification of Imbalanced Medical Datasets -- Natural Language -- An Overview of Chatbot Technology -- Applying an Intelligent Personal Agent on a Smart Home using a Novel Dialogue Generator -- Exploring NLP and Information Extraction to jointly address Question Generation and Answering -- Hong Kong Protests: Using Natural Language Processing for Fake News Detection on Twitter -- On the Learnability of Concepts With Applications to Comparing Word Embedding Algorithms -- Towards fashion recommendation: An AI system for clothing data retrieval and analysis -- Greek Lyrics Generation.

## Sommario/riassunto

This 2 volume-set of IFIP AICT 583 and 584 constitutes the refereed proceedings of the 16th IFIP WG 12.5 International Conference on Artificial Intelligence Applications and Innovations, AIAI 2020, held in Neos Marmaras, Greece, in June 2020.\* The 70 full papers and 5 short papers presented were carefully reviewed and selected from 149 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: Part I: classification; clustering - unsupervised learning -analytics; image processing; learning algorithms; neural network modeling; object tracking - object detection systems; ontologies - AI; and sentiment analysis - recommender systems. Part II: AI ethics - law; AI constraints; deep learning - LSTM; fuzzy algebra - fuzzy systems; machine learning; medical - health systems; and natural language. \*The conference was held virtually due to the COVID-19 pandemic.

