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Collana	IFIP Advances in Information and Communication Technology, , 1868-4238 ; ; 584
Disciplina	016.403
Soggetti	Artificial intelligence Computer communication systems Application software Database management Data mining Information storage and retrieval Artificial Intelligence Computer Communication Networks Computer Appl. in Social and Behavioral Sciences Database Management Data Mining and Knowledge Discovery Information Storage and Retrieval
Lingua di pubblicazione	Inglese
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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.
