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   Nota di contenuto   Prostate Gland Segmentation in Histology Images via Residual and
                       Multi-Resolution U-Net -- Evaluation of Machine Learning Algorithms
                       for Automated Management of Wireless Links -- Imputation of Missing
                       Boarding Stop Information in Smart Card Data with Machine Learning
                       Methods -- HEAT: Hyperbolic Embedding of Attributed Networks --
                       Least Squares Approach for Multivariate Split Selection in Regression
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                       Diabetic Patients using Pairwise Relationship and Hierarchical
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Measures for Image Deblurring -- On Random-Forest-Based Prediction Intervals.-A Machine Learning Approach to Forecast the Safest Period for Outdoor Sports.-One-Shot Only Real-Time Video Classification: A Case Study in Facial Emotion Recognition -- Integrating a Data Mining Engine into Recommender Systems -- Free-Floating Carsharing in SimFleet -- Fatigue Detection in Strength Exercises for Older People -- Trading Cryptocurrency with Deep Deterministic Policy Gradients -- TMSA: Participatory Sensing Based on Mobile Phones in Urban Spaces -- A Slimmer and Deeper Approach to Network Structures for Image Denoising and Dehazing -- PC-OPT: A SfM Point Cloud Denoising Algorithm -- GELAB and Hybrid Optimization Using Grammatical Evolution -- Distribution-wise Symbolic Aggregate approXimation (dwSAX) -- Intelligent Call Routing for Telecommunications Call-Centers.-Entropy Based Grey Wolf Optimizer -- Mapping a Clinical Case Description to an Argumentation Framework: a Preliminary Assessment -- Learning User Comfort and Well-being through Smart Devices -- A Deep Learning Approach to Forecast the Influent Flow in Wastewater Treatment Plants -- Automatic Multispectral Image Classification of Plant Virus from Leaf Samples -- Towards the Modeling of the Hot Rolling Industrial Process. Preliminary Results.

Sommario/riassunto	This two-volume set of LNCS 12489 and 12490 constitutes the thoroughly refereed conference proceedings of the 21th International Conference on Intelligent Data Engineering and Automated Learning, IDEAL 2020, held in Guimaraes, Portugal, in November 2020.* The 93 papers presented were carefully reviewed and selected from 134 submissions. These papers provided a timely sample of the latest advances in data engineering and machine learning, from methodologies, frameworks, and algorithms to applications. The core themes of IDEAL 2020 include big data challenges, machine learning, data mining, information retrieval and management, bio-/neuro-informatics, bio-inspiredmodels, agents and hybrid intelligent systems, real-world applications of intelligent techniques and AI. * The conference was held virtually due to the COVID-19 pandemic.