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	Collana	Lecture Notes in Artificial Intelligence ; ; 11289
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	Soggetti	Artificial intelligence Data mining Special purpose computers Optical data processing Artificial Intelligence Data Mining and Knowledge Discovery Special Purpose and Application-Based Systems Image Processing and Computer Vision
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	Nota di contenuto	Knowledge Representation, Reasoning, and Optimization -- Coding 3D connected regions with F26 chain code -- Finding optimal farming practices to increase crop yield through Global-best Harmony Search and predictive models, a data-driven approach -- On the Modelling of the Energy System of a Country for Decision Making Using Bayesian Artificial Intelligence { A case study for Mexico -- Natural Language Processing -- Enhancement of performance of document clustering in the authorship identification problem with a weighted cosine similarity -- Exploring the Context of Lexical Functions -- Towards a Natural Language Compiler -- Comparative analysis and implementation of semantic-based classifiers -- Best Paper award, second place: Topic-Focus Articulation: A Third Pillar of Automatic Evaluation of Text

Coherence -- A Multilingual Study of Compressive Cross-Language Text Summarization -- WiSeBE: Window-based Sentence Boundary Evaluation -- Readability Formula for Russian Texts: a Modified Version -- Timed automaton RVT-grammar for workflow translating -- Extraction of Typical Client Requests from Bank Chat Logs -- A Knowledge-based Methodology for Building a Conversational Chatbot as an Intelligent Tutor -- Top-k Context-Aware Tour Recommendations for Groups -- A Knowledge-based Weighted kKNN for Detecting Irony in Twitter -- Model for Personality Detection based on Text Analysis -- Analysis of Emotions through Speech Using the Combination of Multiple Input Sources with Deep Convolutional and LSTM Networks -- Robustness of LSTM Neural Networks for the Enhancement of Spectral Parameters in Noisy Speech Signals -- Tensor Decomposition for Imagined Speech Discrimination in EEG -- Robotics and Computer Vision -- A new software library for mobile sensing using FIWARE technologies -- Free model task space controller based on adaptive gain for robot manipulator using Jacobian estimation -- Design and Equilibrium Control of a Force-Balanced One-Leg Mechanism -- An Adaptive Robotic Assistance Platform for Neurorehabilitation Therapy of Upper Limb -- ROBMMOR: An experimental robotic manipulator for motor rehabilitation of knee -- A Bio-inspired Cybersecurity Scheme to Protect a Swarm of Robots -- Chaos optimization applied to a beamforming algorithm for source location -- Data Augmentation in Deep Learning-based Obstacle Detection System for Autonomous Navigation on Aquatic Surfaces -- Best Paper award, third place: Combining Deep Learning and RGBD SLAM for Monocular Indoor Autonomous Flight.

Sommario/riassunto

The two-volume set LNAI 11288 and 11289 constitutes the proceedings of the 17th Mexican International Conference on Artificial Intelligence, MICAI 2018, held in Guadalajara, Mexico, in October 2018. The total of 62 papers presented in these two volumes was carefully reviewed and selected from 149 submissions. The contributions are organized in topical as follows: Part I: evolutionary and nature-inspired intelligence; machine learning; fuzzy logic and uncertainty management. Part II: knowledge representation, reasoning, and optimization; natural language processing; and robotics and computer vision.