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	Disciplina	006.3
	Soggetti	Artificial intelligence Optical data processing Health informatics Application software Information storage and retrieval Algorithms Artificial Intelligence Computer Imaging, Vision, Pattern Recognition and Graphics Health Informatics Information Systems Applications (incl. Internet) Information Storage and Retrieval Algorithm Analysis and Problem Complexity
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	Nota di contenuto	Natural Language Processing -- Finding the Most Frequent Sense of a Word by the Length of Its Definition -- Complete Syntactic N-grams as Style Markers for Authorship Attribution -- Extracting Frame-Like Structures from Google Books NGram Dataset -- Modeling Natural Language Metaphors with an Answer Set Programming Framework -- Whole-Part Relations Rule-Based Automatic Identification: Issues from Fine-Grained Error Analysis -- Statistical Recognition of References in

Czech Court Decisions -- LSA Based Approach to Domain Detection -- Natural Language Processing Applications -- Novel Unsupervised Features for Czech Multi-label Document Classification -- Feature Selection Based on Sampling and C4.5 Algorithm to Improve the Quality of Text Classification Using Naïve Bayes -- Detailed Description of the Development of a MOOC in the Topic of Statistical Machine Translation -- NEBEL: Never-Ending Bilingual Equivalent Learner -- RI for IR: Capturing Term Contexts Using Random Indexing for Comprehensive Information Retrieval -- Data Extraction Using NLP Techniques and Its Transformation to Linked Data -- A New Memetic Algorithm for Multi-document Summarization Based on CHC Algorithm and Greedy Search -- How Predictive Is Tense for Language Proficiency? A Cautionary Tale -- Evaluating Term-Expansion for Unsupervised Image Annotation -- Opinion Mining, Sentiment Analysis, and Social Network Applications -- Gender Differences in Deceivers Writing Style -- Extraction of Semantic Relations from Opinion Reviews in Spanish -- Evaluating Polarity for Verbal Phraseological Units -- Restaurant Information Extraction (Including Opinion Mining Elements) for the Recommendation System -- Aggressive Text Detection for Cyberbullying -- A Sentiment Analysis Model: To Process Subjective Social Corpus through the Adaptation of an Affective Semantic Lexicon -- Towards Automatic Detection of User Influence in Twitter by Means of Stylistic and Behavioral Features -- Computer Vision -- Multisensor Based Obstacles Detection in Challenging Scenes -- GP-MPU Method for Implicit Surface Reconstruction -- Monocular Visual Odometry Based Navigation for a Differential Mobile Robot with Android OS -- Comparison and Analysis of Models to Predict the Motion of Segmented Regions by Optical Flow -- Image Based Place Recognition and Lidar Validation for Vehicle Localization -- Image Processing -- Frequency Filter Bank for Enhancing Carbon Nanotube Images -- A Supervised Segmentation Algorithm for Crop Classification Based on Histograms Using Satellite Images -- An Effective Visual Descriptor Based on Color and Shape Features for Image Retrieval -- Compressive Sensing Architecture for Gray Scale Images -- A Novel Approach for Face Authentication Using Speeded Up Robust Features Algorithm -- On-Line Dense Point Cloud Generation from Monocular Images with Scale Estimation -- An Improved Colorimetric Invariants and RGB-Depth-Based Codebook Model for Background Subtraction Using Kinect -- Novel Binarization Method for Enhancing Ancient and Historical Manuscript Images -- Logic, Reasoning, and Multi-agent Systems -- Preferences for Argumentation Semantics -- Computing Preferred Semantics: Comparing Two ASP Approaches vs an Approach Based on 0-1 Integer Programming -- Experimenting with SAT Solvers in Vampire -- Onto Design Graphics (ODG): A Graphical Notation to Standardize Ontology Design -- A Logic for Context-Aware Non-monotonic Reasoning Agents -- MAS-td: An Approach to Termination Detection of Multi-agent Systems -- Intelligent Tutoring Systems -- Intelligent Tutoring System with Affective Learning for Mathematics -- Emotion Recognition in Intelligent Tutoring System for Android-Based Mobile Devices.

| Sommario/riassunto | The two-volume set LNAI 8856 and LNAI 8857 constitutes the proceedings of the 13th Mexican International Conference on Artificial Intelligence, MICAI 2014, held in Tuxtla, Mexico, in November 2014. The total of 87 papers plus 1 invited talk presented in these proceedings were carefully reviewed and selected from 348 submissions. The first volume deals with advances in human-inspired computing and its applications. It contains 44 papers structured into seven sections: natural language processing, natural language processing applications, opinion mining, sentiment analysis, and social |

network applications, computer vision, image processing, logic, reasoning, and multi-agent systems, and intelligent tutoring systems. The second volume deals with advances in nature-inspired computation and machine learning and contains also 44 papers structured into eight sections: genetic and evolutionary algorithms, neural networks, machine learning, machine learning applications to audio and text, data mining, fuzzy logic, robotics, planning, and scheduling, and biomedical applications.