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Soggetti	Natural language processing (Computer science) Artificial intelligence Information storage and retrieval systems Data mining Natural Language Processing (NLP) Artificial Intelligence Information Storage and Retrieval Data Mining and Knowledge Discovery
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Nota di contenuto	Improving Supervised Classification Using Information Extraction -- Supervised Machine Learning Techniques to Detect TimeML Events in French and English -- In Defense of Word Embedding for Generic Text Representation -- Using Distributed Word Representations and mRMR Discriminant Analysis for Multilingual Text Summarization -- Combining Pattern-Based and Distributional Similarity for Graph-Based Noun Categorization -- Acquiring a Large Scale Polarity Lexicon Through Unsupervised Distributional Methods -- Query Refinement Using Conversational Context: A Method and an Evaluation Resource -- Applying Semantic Parsing to Question Answering Over Linked Data: Addressing the Lexical Gap -- Pragmatic Query Answering: Results

from a Quantitative Evaluation -- What was the Query? Generating Queries for Document Sets with Applications in Cluster Labeling -- Using Context-Aware and Semantic Similarity Based Model to Enrich Ontology Concepts -- NADIA: A Simplified Approach Towards the Development of Natural Dialogue Systems -- How to Talk to a Cognitive Computer -- Comparing Recursive Autoencoder and Convolutional Network for Phrase-Level Sentiment Polarity Classification -- The Interplay of Language Processing, Reasoning and Decision-Making in Cognitive Computing -- Towards Benevolent Sales Assistants in Retailing Scenarios -- A Rule-Based Approach to Implicit Emotion Detection in Text -- Deciphering Review Comments: Identifying Suggestions, Appreciations and Complaints -- Associating Intent with Sentiment in Weblogs -- PSO-ASent: Feature Selection Using Particle Swarm Optimization for Aspect Based Sentiment Analysis -- Improving Spanish Polarity Classification Combining Different Linguistic Resources -- Tree-Structured Named Entities Extraction from Competing Speech Transcriptions -- Interactive Learning with TREE: Teachable Relation and Event Extraction System -- Identification and Ranking of Event-Specific Entity-Centric Informative Content from Twitter -- Automatic Classification and PLS-PM Modeling for Profiling Reputation of Corporate Entities on Twitter -- An Adaptable and Personalised E-Learning System Based on Free Web Resources -- A Controlled Natural Language for Business Intelligence Monitoring -- Text Summarization and Speech Synthesis for the Automated Generation of Personalized Audio Presentations -- Unsupervised Classification of Translated Texts -- A Language-Independent Method for Detection and Correction of Alignment Errors in Parallel Corpora -- High-Precision Person Name Extraction from Turkish Texts Using Wikipedia -- A Hybrid Approach for Extracting Arabic Persons' Names and Resolving Their Ambiguity from Twitter -- Extracting Relations from Unstructured Text Sources for Music Recommendation -- Simulating Misreading -- (German) Language Processing for Lucene -- Optimized Uyghur Segmentation for Statistical Machine Translation -- Management and Publishing of Multimedia Dictionary of the Czech Sign Language -- Detection of Modality with ITGETARUNS -- Gathering Knowledge for Question Answering Beyond Named Entities -- MaNER: A Medical Named Entity Recogniser -- Upper Bound for Cross-Lingual Concept Mapping with External Translation Resources -- Generating Logical Representations for Natural Language Requirements Using Syntactic Dependencies and Norm Analysis Patterns -- Random Indexing Revisited -- On Developing Extraction Rules for Mining Informal Scientific References from Altmetric Data Sources -- Lemonade: A Web Assistant for Creating and Debugging Ontology Lexica -- A Comparative Study on Twitter Sentiment Analysis: Which Features are Good?.

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## Sommario/riassunto

This book constitutes the refereed proceedings of the 20th International Conference on Applications of Natural Language to Information Systems, NLDB 2015, held in Passau, Germany, in June 2015. The 18 full papers, 15 short papers, 14 poster and demonstration papers presented were carefully reviewed and selected from 100 submissions. The papers cover the following topics: information extraction, distributional semantics, querying and question answering systems, context-aware NLP, cognitive and semantic computing, sentiment and opinion analysis, information extraction and social media, NLP and usability, text classification and extraction, and posters and demonstrations.

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