

1. Record Nr.	UNINA9910811011803321
Titolo	Functional applications of text analytics systems // Steven Simske and Marie Vans, editors
Pubbl/distr/stampa	Denmark : , : River Publishers, , [2021] ©2021
ISBN	1-00-333822-4 1-003-33822-4 1-000-79358-3 87-7022-342-4
Edizione	[1st ed.]
Descrizione fisica	1 online resource (292 pages)
Collana	River Publishers Series in Document Engineering
Disciplina	006.312
Soggetti	Text data mining
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover -- Half Title -- Series Page -- Title Page -- Copyright Page -- Table of Contents -- Preface -- Acknowledgement -- List of Figures -- List of Tables -- List of Abbreviations -- 1: Linguistics and NLP -- 1.1 Introduction -- 1.2 General Considerations -- 1.3 Machine Learning Aspects -- 1.3.1 Machine Learning Features -- 1.3.2 Other Machine Learning Approaches -- 1.4 Design/System Considerations -- 1.4.1 Sensitivity Analysis -- 1.4.2 Iterative Tradeoff in Approach -- 1.4.3 Competition - Cooperation Algorithms -- 1.4.4 Top-Down and Bottom-Up Designs -- 1.4.5 Agent-Based Models and Other Simulations -- 1.5 Applications/Examples -- 1.6 Test and Configuration -- 1.7 Summary -- 2: Summarization -- 2.1 Introduction -- 2.2 General Considerations -- 2.2.1 Summarization Approaches - An Overview -- 2.2.2 Weighting Factors in Extractive Summarization -- 2.2.3 Other Considerations in Extractive Summarization -- 2.2.4 Meta-Algorithmics and Extractive Summarization -- 2.3 Machine Learning Aspects -- 2.4 Design/System Considerations -- 2.5 Applications/Examples -- 2.6 Test and Configuration -- 2.7 Summary -- 3: Clustering, Classification, and Categorization -- 3.1 Introduction -- 3.1.1 Clustering -- 3.1.2 Regularization - An Introduction -- 3.1.3

Regularization and Clustering -- 3.2 General Considerations -- 3.3 Machine Learning Aspects -- 3.3.1 Machine Learning and Clustering -- 3.3.2 Machine Learning and Classification -- 3.3.3 Machine Learning and Categorization -- 3.4 Design/System Considerations -- 3.5 Applications/Examples -- 3.5.1 Query-Synonym Expansion -- 3.5.2 ANOVA, Cross-Correlation, and Image Classification -- 3.6 Test and Configuration -- 3.7 Summary -- 4: Translation -- 4.1 Introduction -- 4.2 General Considerations -- 4.2.1 Review of Relevant Prior Research -- 4.2.2 Summarization as a Means to Functionally Grade the Accuracy of Translation. -- 4.3 Machine Learning Aspects -- 4.3.1 Summarization and Translation -- 4.3.2 Document Reading Order -- 4.3.3 Other Machine Learning Considerations -- 4.4 Design/System Considerations -- 4.5 Applications/Examples -- 4.6 Test and Configuration -- 4.7 Summary -- 5: Optimization -- 5.1 Introduction -- 5.2 General Considerations -- 5.3 Machine Learning Aspects -- 5.4 Design/System Considerations -- 5.5 Applications/Examples -- 5.5.1 Document Clustering -- 5.5.2 Document Classification -- 5.5.3 Web Mining -- 5.5.4 Information and Content Extraction -- 5.5.5 Natural Language Processing -- 5.5.6 Sentiment Analysis -- 5.5.7 Native vs. Non-Native Speakers -- 5.5.8 Virtual Reality and Augmented Reality -- 5.6 Test and Configuration -- 5.7 Summary -- 6: Learning -- 6.1 Introduction -- 6.1.1 Reading Order -- 6.1.2 Repurposing of Text -- 6.1.3 Philosophies of Learning -- 6.2 General Considerations -- 6.2.1 Metadata -- 6.2.2 Pathways of Learning -- 6.3 Machine Learning Aspects -- 6.3.1 Learning About Machine Learning -- 6.3.2 Machine Learning Constraints -- 6.4 Design/System Considerations -- 6.4.1 Do Not Use Machine Learning for the Sake of Using Machine Learning -- 6.4.2 Learning to Learn -- 6.4.3 Prediction Time -- 6.5 Applications/Examples -- 6.5.1 Curriculum Development -- 6.5.2 Customized Education Planning -- 6.5.3 Personalized Rehearsing -- 6.6 Test and Configuration -- 6.7 Summary -- 7: Testing and Configuration -- 7.1 Introduction -- 7.2 General Considerations -- 7.2.1 Data-Ops -- 7.2.2 Text Analytics and Immunological Data -- 7.2.3 Text Analytics and Cybersecurity -- 7.2.4 Data-Ops and Testing -- 7.3 Machine Learning Aspects -- 7.4 Design/System Considerations -- 7.5 Applications/Examples -- 7.6 Test and Configuration -- 7.7 Summary -- Index -- About the Author.

Sommario/riassunto

Text analytics can provide a wide breadth of valuable information, including summarization, clustering, classification, and categorization to enable better functional interaction with the text. This includes improved search, translation, optimization, and learning. In this text advanced analytical approaches used to enable improved utility of the text documents are described and explained.
