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This open access book covers
all facets of entity-

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oriented search—where
“search” can be interpreted
in the broadest sense of
information access—from a
unified point of view, and
provides a coherent and
comprehensive overview of
the state of the art. It

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represents the first synthesis of research in this broad and rapidly developing area. Selected topics are discussed in-depth, the goal being to establish fundamental techniques and methods as a

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basis for future research
and development. Additional
topics are treated at a
survey level only,
containing numerous pointers
to the relevant literature.
A roadmap for future
research, based on open

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issues and challenges identified along the way, rounds out the book. The book is divided into three main parts, sandwiched between introductory and concluding chapters. The first two chapters introduce

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readers to the basic concepts, provide an overview of entity-oriented search tasks, and present the various types and sources of data that will be used throughout the book. Part I deals with the core

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task of entity ranking:
given a textual query,
possibly enriched with
additional elements or
structural hints, return a
ranked list of entities.
This core task is examined
in a number of different

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variants, using both structured and unstructured data collections, and numerous query formulations. In turn, Part II is devoted to the role of entities in bridging unstructured and structured data. Part III

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explores how entities can enable search engines to understand the concepts, meaning, and intent behind the query that the user enters into the search box, and how they can provide rich and focused responses

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(as opposed to merely a list of documents)—a process known as semantic search. The final chapter concludes the book by discussing the limitations of current approaches, and suggesting directions for future

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research. Researchers and graduate students are the primary target audience of this book. A general background in information retrieval is sufficient to follow the material, including an understanding

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of basic probability and statistics concepts as well as a basic knowledge of machine learning concepts and supervised learning algorithms.

A haunted woman's reclusively ordered world is

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thrown into chaos by a houseguest who bullies her into reality and brings love into her life. A first novel by the best-selling author of *No One Belongs Here More Than You*. 125,000 first printing.

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This book describes the main objective of EuroWordNet, which is the building of a multilingual database with lexical semantic networks or wordnets for several European languages. Each wordnet in the database

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represents a language-specific structure due to the unique lexicalization of concepts in languages. The concepts are inter-linked via a separate Inter-Lingual-Index, where equivalent concepts across languages

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should share the same index item. The flexible multilingual design of the database makes it possible to compare the lexicalizations and semantic structures, revealing answers to fundamental

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linguistic and philosophical questions which could never be answered before. How consistent are lexical semantic networks across languages, what are the language-specific differences of these

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networks, is there a
language-universal ontology,
how much information can be
shared across languages?
First attempts to answer
these questions are given in
the form of a set of shared
or common Base Concepts that

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has been derived from the separate wordnets and their classification by a language-neutral top-ontology. These Base Concepts play a fundamental role in several wordnets. Nevertheless, the database may also serve many

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practical needs with respect to (cross-language) information retrieval, machine translation tools, language generation tools and language learning tools, which are discussed in the final chapter. The book

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offers an excellent introduction to the EuroWordNet project for scholars in the field and raises many issues that set the directions for further research in semantics and knowledge engineering.

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Thanks to the availability of texts on the Web in recent years, increased knowledge and information have been made available to broader audiences. However, the way in which a text is written—its vocabulary, its

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syntax—can be difficult to read and understand for many people, especially those with poor literacy, cognitive or linguistic impairment, or those with limited knowledge of the language of the text. Texts

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containing uncommon words or long and complicated sentences can be difficult to read and understand by people as well as difficult to analyze by machines. Automatic text simplification is the

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process of transforming a text into another text which, ideally conveying the same message, will be easier to read and understand by a broader audience. The process usually involves the replacement of difficult or

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unknown phrases with simpler equivalents and the transformation of long and syntactically complex sentences into shorter and less complex ones. Automatic text simplification, a research topic which started

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20 years ago, now has taken on a central role in natural language processing research not only because of the interesting challenges it possesses but also because of its social implications.

This book presents past and

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current research in text simplification, exploring key issues including automatic readability assessment, lexical simplification, and syntactic simplification. It also provides a detailed

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account of machine learning techniques currently used in simplification, describes full systems designed for specific languages and target audiences, and offers available resources for research and development

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together with text
simplification evaluation
techniques.

Web Information Systems
Engineering - WISE 2015
Concepts, Methodologies,
Tools, and Applications
Theory and Applications for

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Advanced Text Mining
Lucene in Action
Information Sources in
Patents
Database Systems for
Advanced Applications
Taming Text

"This book will serve as an integrated

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e-business knowledge base for those who are interested in the advancement of e-business theory and practice through a variety of research methods including theoretical, experimental, case, and survey research methods"--Provided by publisher.

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This book presents a comprehensive introduction to Internetware, covering aspects ranging from the fundamental principles and engineering methodologies to operational platforms, quality measurements and assurance and future directions. It

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also includes guidelines and numerous representative real-world case studies that serve as an invaluable reference resource for software engineers involved in the development of Internetware applications. Providing a detailed

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analysis of current trends in modern software engineering in the Internet, it offers an essential blueprint and an important contribution to the research on software engineering and systems for future Internet computing. This book constitutes the refereed

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*proceedings of workshops, held at the
31st International Conference on
Conceptual Modeling, ER 2012, in
Florence, Italy in October 2012. The
32 revised papers presented together
with 6 demonstrations were carefully
reviewed and selected from 84*

submissions. The papers are organized in sections on the workshops CMS 2012, EDCM-NoCoDa, MODIC, MORE-BI, RIGIM, SeCoGIS and WISM. The workshops cover different conceptual modeling topics, from requirements,

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*goal and service modeling, to
evolution and change management, to
non-conventional data access, and
they span a wide range of domains
including Web information systems,
geographical information systems,
business intelligence, data-intensive*

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computing.

*Artificial Intelligence federates
numerous scientific fields in the aim
of developing machines able to assist
human operators performing complex
treatments---most of which demand
high cognitive skills (e.g. learning or*

decision processes). Central to this quest is to give machines the ability to estimate the likeness or similarity between things in the way human beings estimate the similarity between stimuli. In this context, this book focuses on semantic measures:

approaches designed for comparing semantic entities such as units of language, e.g. words, sentences, or concepts and instances defined into knowledge bases. The aim of these measures is to assess the similarity or relatedness of such semantic entities

by taking into account their semantics, i.e. their meaning---intuitively, the words tea and coffee, which both refer to stimulating beverage, will be estimated to be more semantically similar than the words toffee

(confection) and coffee, despite that the last pair has a higher syntactic similarity. The two state-of-the-art approaches for estimating and quantifying semantic similarities/relatedness of semantic entities are presented in detail: the

first one relies on corpora analysis and is based on Natural Language Processing techniques and semantic models while the second is based on more or less formal, computer-readable and workable forms of knowledge such as semantic networks,

thesauri or ontologies. Semantic measures are widely used today to compare units of language, concepts, instances or even resources indexed by them (e.g., documents, genes). They are central elements of a large variety of Natural Language

Processing applications and knowledge-based treatments, and have therefore naturally been subject to intensive and interdisciplinary research efforts during last decades. Beyond a simple inventory and categorization of existing measures,

the aim of this monograph is to convey novices as well as researchers of these domains toward a better understanding of semantic similarity estimation and more generally semantic measures. To this end, we propose an in-depth characterization

of existing proposals by discussing their features, the assumptions on which they are based and empirical results regarding their performance in particular applications. By answering these questions and by providing a detailed discussion on the foundations

of semantic measures, our aim is to give the reader key knowledge required to: (i) select the more relevant methods according to a particular usage context, (ii) understand the challenges offered to this field of study, (iii) distinguish

room of improvements for state-of-the-art approaches and (iv) stimulate creativity toward the development of new approaches. In this aim, several definitions, theoretical and practical details, as well as concrete applications are presented

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*Databases and Information Systems
IX*

*An Ontology-Based Framework
Theories, Implementation, and
Application*

Multiword expressions

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*Language Processing with Perl and
Prolog*

*Selected Papers from the Twelfth
International Baltic Conference,
DB&IS 2016*

How do we read stories? How
do they engage our minds and

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create meaning? Are they a mental construct, a linguistic one or a cultural one? What is the difference between real stories and fictional ones? This book addresses such questions by describing the conceptual

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and linguistic underpinnings of narrative interpretation. Barbara Dancygier discusses literary texts as linguistic artifacts, describing the processes which drive the emergence of literary meaning. If a text means

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something to someone, she argues, there have to be linguistic phenomena that make it possible. Drawing on blending theory and construction grammar, the book focuses its linguistic lens on the concepts of the

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narrator and the story, and defines narrative viewpoint in a new way. The examples come from a wide spectrum of texts, primarily novels and drama, by authors such as William Shakespeare, Margaret Atwood, Philip

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Roth, Dave Eggers, Jan
Potocki and Mikhail
Bulgakov.

Engineering, Computer and
Information Sciences

The aim of each volume of
this series Guides to
Information Sources is to

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reduce the time which needs to be spent on patient searching and to recommend the best starting point and sources most likely to yield the desired information. The criteria for selection provide a way into a subject

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to those new to the field and assists in identifying major new or possibly unexplored sources to those who already have some acquaintance with it. The series attempts to achieve evaluation through a careful

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selection of sources and
through the comments
provided on those sources.
Ontology Learning for the
Semantic Web explores
techniques for applying
knowledge discovery
techniques to different web

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data sources (such as HTML documents, dictionaries, etc.), in order to support the task of engineering and maintaining ontologies. The approach of ontology learning proposed in Ontology Learning for the

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Semantic Web includes a number of complementary disciplines that feed in different types of unstructured and semi-structured data. This data is necessary in order to support a semi-automatic

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ontology engineering
process. Ontology Learning
for the Semantic Web is
designed for researchers and
developers of semantic web
applications. It also serves
as an excellent supplemental
reference to advanced level

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courses in ontologies and
the semantic web.

Using Comparable Corpora for
Under-Resourced Areas of
Machine Translation

Business Process Management
7th Language and Technology
Conference, LTC 2015,

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Poznań, Poland, November
27-29, 2015, Revised

Selected Papers

Human Language Technology.

Challenges for Computer

Science and Linguistics

Methods, Evaluation and

Applications

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Semantic Knowledge

Management: An Ontology-
Based Framework

Insights from a multi-
lingual perspective

*The field of narrative (or story)
understanding and generation is one
of the oldest in natural language*

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processing (NLP) and artificial intelligence (AI), which is hardly surprising, since storytelling is such a fundamental and familiar intellectual and social activity. In recent years, the demands of interactive entertainment and interest in the creation of engaging

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narratives with life-like characters have provided a fresh impetus to this field. This book provides an overview of the principal problems, approaches, and challenges faced today in modeling the narrative structure of stories. The book introduces classical narratological

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concepts from literary theory and their mapping to computational approaches. It demonstrates how research in AI and NLP has modeled character goals, causality, and time using formalisms from planning, case-based reasoning, and temporal reasoning, and discusses

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fundamental limitations in such approaches. It proposes new representations for embedded narratives and fictional entities, for assessing the pace of a narrative, and offers an empirical theory of audience response. These notions are incorporated into an annotation

scheme called NarrativeML. The book identifies key issues that need to be addressed, including annotation methods for long literary narratives, the representation of modality and habituality, and characterizing the goals of narrators. It also suggests a future

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characterized by advanced text mining of narrative structure from large-scale corpora and the development of a variety of useful authoring aids. This is the first book to provide a systematic foundation that integrates together narratology, AI, and computational linguistics. It

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can serve as a narratology primer for computer scientists and an elucidation of computational narratology for literary theorists. It is written in a highly accessible manner and is intended for use by a broad scientific audience that includes linguists (computational and formal

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semanticists), AI researchers, cognitive scientists, computer scientists, game developers, and narrative theorists.

Multiword expressions (MWEs) are a challenge for both the natural language applications and the linguistic theory because they often

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defy the application of the machinery developed for free combinations where the default is that the meaning of an utterance can be predicted from its structure. There is a rich body of primarily descriptive work on MWEs for many European languages but comparative work is little. The

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volume brings together MWE experts to explore the benefits of a multilingual perspective on MWEs. The ten contributions in this volume look at MWEs in Bulgarian, English, French, German, Maori, Modern Greek, Romanian, Serbian, and Spanish. They discuss prominent

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issues in MWE research such as classification of MWEs, their formal grammatical modeling, and the description of individual MWE types from the point of view of different theoretical frameworks, such as Dependency Grammar, Generative Grammar, Head-driven Phrase

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*Structure Grammar, Lexical
Functional Grammar, Lexicon
Grammar.*

*Databases and information systems
are now indispensable for the day-to-
day functioning of businesses and
society. This book presents 25
selected papers from those delivered*

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at the 12th International Baltic Conference on Databases and Information Systems 2016 (DB&IS 2016), held in Riga, Latvia, in July 2016. Since it began in 1994, this biennial conference has become an international forum for researchers and developers in the field of

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databases, information systems and related areas, and the papers collected here cover a wide spectrum of topics related to the development of information systems and data processing. These include: the development of ontology applications; tools, technologies and

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*languages for model-driven
development; decision support
systems and data mining; natural
language processing and building
linguistic components of information
systems; advanced systems and
technologies related to information
systems, databases and information*

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technologies in teaching and learning. The book will be of interest to all those whose work involves the design, application and use of databases and information systems. This book presents selected proceedings of the annual convention of the Computer Society of India.

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Divided into 10 topical volumes, the proceedings present papers on state-of-the-art research, surveys, and succinct reviews. They cover diverse topics ranging from communications networks to big data analytics, and from system architecture to cyber security. This book focuses on

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Software Engineering, and informs readers about the state of the art in software engineering by gathering high-quality papers that represent the outcomes of consolidated research and innovations in Software Engineering and related areas. In addition to helping practitioners and

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researchers understand the chief issues involved in designing, developing, evolving and validating complex software systems, it provides comprehensive information on developing professional careers in Software Engineering. It also provides insights into various

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research issues such as software reliability, verification and validation, security and extensibility, as well as the latest concepts like component-based development, software process models, process-driven systems and human-computer collaborative systems.

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*A Cognitive Approach
Second International Conference,
TPDL 2012, Paphos, Cyprus,
September 23-27, 2012, Proceedings
EuroWordNet: A multilingual
database with lexical semantic
networks
30th International Conference on*

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*Industrial Engineering and Other
Applications of Applied Intelligent
Systems, IEA/AIE 2017, Arras,
France, June 27-30, 2017,
Proceedings, Part II
Advances in Artificial Intelligence:
From Theory to Practice
Web Technologies: Concepts,*

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*Methodologies, Tools, and
Applications*

*16th International Conference,
Miami, FL, USA, November 1-3,
2015, Proceedings, Part II*

"This book addresses the
Semantic Web from an

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operative point of view using
theoretical approaches,
methodologies, and software
applications as innovative
solutions to true knowledge
management"--Provided by
publisher.

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Based on ideas from Support
Vector Machines (SVMs),
Learning To Classify Text Using
Support Vector Machines
presents a new approach to
generating text classifiers from
examples. The approach

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combines high performance and efficiency with theoretical understanding and improved robustness. In particular, it is highly effective without greedy heuristic components. The SVM approach is computationally

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efficient in training and classification, and it comes with a learning theory that can guide real-world applications.

Learning To Classify Text Using Support Vector Machines gives a complete and detailed

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description of the SVM
approach to learning text
classifiers, including training
algorithms, transductive text
classification, efficient
performance estimation, and a
statistical learning model of text

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classification. In addition, it includes an overview of the field of text classification, making it self-contained even for newcomers to the field. This book gives a concise introduction to SVMs for pattern

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recognition, and it includes a detailed description of how to formulate text-classification tasks for machine learning.

In this 2012 edition of Advances in Knowledge-Based and Intelligent Information and

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Engineering Systems the latest innovations and advances in Intelligent Systems and related areas are presented by leading experts from all over the world. The 228 papers that are included cover a wide range of

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topics. One emphasis is on Information Processing, which has become a pervasive phenomenon in our civilization. While the majority of Information Processing is becoming intelligent in a very

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broad sense, major research in Semantics, Artificial Intelligence and Knowledge Engineering supports the domain specific applications that are becoming more and more present in our everyday living. Ontologies play

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a major role in the development of Knowledge Engineering in various domains, from Semantic Web down to the design of specific Decision Support Systems. Research on Ontologies and their

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applications is a highly active front of current Computational Intelligence science that is addressed here. Other subjects in this volume are modern Machine Learning, Lattice Computing and Mathematical

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Morphology. The wide scope and high quality of these contributions clearly show that knowledge engineering is a continuous living and evolving set of technologies aimed at improving the design and

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understanding of systems and
their relations with humans.

This book constitutes the
proceedings of the 11th
International Conference on
Business Process Management,
BPM 2013, held in Beijing,

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China, in August 2013. The 17 regular papers and 8 short papers included in this volume were carefully reviewed and selected from 118 submissions. The papers are organized in 7 topical sections named: process

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mining; conformance checking;
process data; process model
matching; process architectures
and collaboration; as well as
alternative perspectives, and
industry paper.

How to Find, Organize, and

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Manipulate It

7th International Joint
Conference, IC3K 2015, Lisbon,
Portugal, November 12-14,
2015, Revised Selected Papers
Software Engineering
Inspec Thesaurus

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Exploiting New Technologies for Competitive Advantage Entity-Oriented Search Multiagent System Technologies

When Lucene first hit the scene
five years ago, it was nothing

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short of amazing. By using this open-source, highly scalable, super-fast search engine, developers could integrate search into applications quickly and efficiently. A lot has changed

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since then-search has grown from a "nice-to-have" feature into an indispensable part of most enterprise applications. Lucene now powers search in diverse companies including Akamai,

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Netflix, LinkedIn, Technorati,
HotJobs, Epiphany, FedEx,
Mayo Clinic, MIT, New
Scientist Magazine, and many
others. Some things remain the
same, though. Lucene still
delivers high-

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performance search features in a disarmingly easy-to-use API. Due to its vibrant and diverse open-source community of developers and users, Lucene is relentlessly improving, with evolutions to

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APIs, significant new features such as payloads, and a huge increase (as much as 8x) in indexing speed with Lucene 2.3. And with clear writing, reusable examples, and unmatched advice on

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bestpractices, Lucene in Action, Second Edition is still the definitive guide to developing with Lucene. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook

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from Manning. Also available is all code from the book.

With the technological advancement of mobile devices, social networking, and electronic services, Web technologies continues to play

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an ever-growing part of the global way of life, incorporated into cultural, economical, and organizational levels. Web Technologies: Concepts, Methodologies, Tools, and Applications (4 Volume)

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provides a comprehensive depiction of current and future trends in support of the evolution of Web information systems, Web applications, and the Internet. Through coverage of the latest models, concepts,

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and architectures, this multiple-volume reference supplies audiences with an authoritative source of information and direction for the further development of the Internet and Web-based phenomena.

Bookmark File PDF Mit Java Wordnet Interface Jwi User S Guide Mit Csail

Explains how to build computer software systems which generate understandable texts in human languages.

This book provides an overview of how comparable corpora can be used to overcome the lack

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of parallel resources when building machine translation systems for under-resourced languages and domains. It presents a wealth of methods and open tools for building comparable corpora from the

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Web, evaluating comparability and extracting parallel data that can be used for the machine translation task. It is divided into several sections, each covering a specific task such as building, processing,

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and using comparable corpora, focusing particularly on under-resourced language pairs and domains. The book is intended for anyone interested in data-driven machine translation for under-resourced languages

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and domains, especially for developers of machine translation systems, computational linguists and language workers. It offers a valuable resource for specialists and students in

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natural language processing,
machine translation, corpus
linguistics and computer-
assisted translation, and
promotes the broader use of
comparable corpora in natural
language processing and

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computational linguistics.
ER 2012 Workshops CMS,
ECDM-NoCoDA, MODIC, MORE-
BI, RIGIM, SeCoGIS, WISM,
Florence, Italy, October 15-18,
2012, Proceedings
Automatic Text Simplification

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Computational Modeling of
Narrative

A New Software Paradigm for
Internet Computing

Advances in Conceptual
Modeling

Proceedings of CSI 2015

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Introduction to Information
Visualization

**The two-volume set LNCS 10350 and
10351 constitutes the thoroughly
refereed proceedings of the 30th
International Conference on
Industrial, Engineering and Other**

Applications of Applied Intelligent Systems, IEA/AIE 2017, held in Arras, France, in June 2017. The 70 revised full papers presented together with 45 short papers and 3 invited talks were carefully reviewed and selected from 180 submissions.

They are organized in topical sections: constraints, planning, and optimization; data mining and machine learning; sensors, signal processing, and data fusion; recommender systems; decision support systems; knowledge

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**representation and reasoning;
navigation, control, and autonome
agents; sentiment analysis and social
media; games, computer vision; and
animation; uncertainty
management; graphical models:
from theory to applications; anomaly**

detection; agronomy and artificial intelligence; applications of argumentation; intelligent systems in healthcare and mhealth for health outcomes; and innovative applications of textual analysis based on AI.

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Summary Taming Text, winner of the 2013 Jolt Awards for Productivity, is a hands-on, example-driven guide to working with unstructured text in the context of real-world applications. This book explores how to automatically

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organize text using approaches such as full-text search, proper name recognition, clustering, tagging, information extraction, and summarization. The book guides you through examples illustrating each of these topics, as well as the

foundations upon which they are built. About this Book There is so much text in our lives, we are practically drowning in it. Fortunately, there are innovative tools and techniques for managing unstructured information that can

throw the smart developer a much-needed lifeline. You'll find them in this book. Taming Text is a practical, example-driven guide to working with text in real applications. This book introduces you to useful techniques like full-text search,

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proper name recognition, clustering, tagging, information extraction, and summarization. You'll explore real use cases as you systematically absorb the foundations upon which they are built. Written in a clear and concise style, this book avoids

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jargon, explaining the subject in terms you can understand without a background in statistics or natural language processing. Examples are in Java, but the concepts can be applied in any language. Written for Java developers, the book requires no

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prior knowledge of GWT. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. Winner of 2013 Jolt Awards: The Best Books—one of five notable books

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every serious programmer should read. What's Inside When to use text-taming techniques Important open-source libraries like Solr and Mahout How to build text-processing applications About the Authors Grant Ingersoll is an engineer,

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**speaker, and trainer, a
Lucenecommitter, and a cofounder
of the Mahout machine-learning
project. Thomas Morton is the
primary developer of OpenNLP and
Maximum Entropy. Drew Farris is a
technology consultant, software**

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developer, and contributor to Mahout, Lucene, and Solr. "Takes the mystery out of very complex processes."—From the Foreword by Liz Liddy, Dean, iSchool, Syracuse University Table of Contents Getting started taming text Foundations of

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**taming text Searching Fuzzy string
matching Identifying people, places,
and things Clustering text
Classification, categorization, and
tagging Building an example
question answering system Untamed
text: exploring the next frontier**

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This two volume set LNCS 9418 and LNCS 9419 constitutes the proceedings of the 16th International Conference on Web Information Systems Engineering, WISE 2015, held in Miami, FL, USA, in November 2015. The 53 full papers,

17 short and 14 special sessions and invited papers, presented in these proceedings were carefully reviewed and selected from 189 submissions. The papers cover the areas of big data techniques and applications, deep/hidden web, integration of web

**and internet, linked open data,
semantic web, social network
computing, social web and
applications, social web models,
analysis and mining, web-based
applications, web-based business
processes and web services, web data**

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integration and mashups, web data models, web information retrieval, web privacy and security, web-based recommendations, and web search. This book constitutes the workshop proceedings of the 18th International Conference on Database Systems for

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**Advanced Applications, DASFAA
2013, held in Wuhan, China, in April
2013. The volume contains three
workshops, each focusing on specific
area that contributes to the main
themes of the DASFAA conference:
The First International Workshop**

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**on Big Data Management and
Analytics (BDMA 2013), the Third
International Workshop on Social
Networks and Social Web (SNSM
2013) and the International
Workshop on Semantic Computing
and Personalization (SeCoP 2013).**

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**E-Business Applications for Product
Development and Competitive
Growth: Emerging Technologies
Tech Mining
Text Mining Application
Programming
14th German Conference, MATES**

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**2016, Klagenfurt, Österreich,
September 27-30, 2016. Proceedings
11th International Conference, BPM
2013, Beijing, China, August 26-30,
2013, Proceedings
Emerging Technologies
Ontology Learning from Text**

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***Web Information Systems
Engineering – WISE 201516th
International Conference, Miami,
FL, USA, November 1-3, 2015,
Proceedings, Part II Springer
Due to the growth of computer
technologies and web***

technologies, we can easily collect and store large amounts of text data. We can believe that the data include useful knowledge. Text mining techniques have been studied aggressively in order to extract

the knowledge from the data since late 1990s. Even if many important techniques have been developed, the text mining research field continues to expand for the needs arising from various application fields.

This book is composed of 9 chapters introducing advanced text mining techniques. They are various techniques from relation extraction to under or less resourced language. I believe that this book will give new

knowledge in the text mining field and help many readers open their new research fields.

Tech Mining makes exploitation of text databases meaningful to those who can gain from derived knowledge about

emerging technologies. It begins with the premise that we have the information, the tools to exploit it, and the need for the resulting knowledge. The information provided puts new capabilities at the hands

of technology managers. Using the material present, these managers can identify and access the most valuable technology information resources (publications, patents, etc.); search, retrieve, and clean the

***information on topics of interest;
and lower the costs and enhance
the benefits of competitive
technological
intelligence operations.
Text Mining Application
Programming teaches software***

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developers how to mine the vast amounts of information available on the Web, internal networks, and desktop files and turn it into usable data. The book helps developers understand the problems associated with

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managing unstructured text, and explains how to build your own mining tools using standard statistical methods from information theory, artificial intelligence, and operations research. Each of the topics

covered are thoroughly explained and then a practical implementation is provided. The book begins with a brief overview of text data, where it can be found, and the typical search engines and tools used to

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search and gather this text. It details how to build tools for extracting and using the text, and covers the mathematics behind many of the algorithms used in building these tools. From there you'll learn how to

build tokens from text, construct indexes, and detect patterns in text. You'll also find methods to extract the names of people, places, and organizations from an email, a news article, or a Web page. The next portion of the

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book teaches you how to find information on the Web, the structure of the Web, and how to build spiders to crawl the Web. Text categorization is also described in the context of managing email. The final part of

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the book covers information monitoring, summarization, and a simple Question & Answer (Q&A) system. The code used in the book is written in Perl, but knowledge of Perl is not necessary to run the software.

Developers with an intermediate level of experience with Perl can customize the software.

Although the book is about programming, methods are explained with English-like pseudocode and the source code

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is provided on the CD-ROM. After reading this book, you'll be ready to tap into the bevy of information available online in ways you never thought possible.

2019 International Multi

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***Conference on Engineering,
Computer and Information
Sciences (SIBIRCON)
The First Bad Man
Ontology Learning for the
Semantic Web
Building Natural Language***

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***Generation Systems
Knowledge Discovery,
Knowledge Engineering and
Knowledge Management
Internetware
Semantic Similarity from Natural
Language and Ontology Analysis***

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The latest title in Black Library's premium line. Perturabo - master of siegecraft, and executioner of Olympia. Long has he lived in the shadow of his more favoured primarch brothers, frustrated by the mundane and ignominious duties which regularly fall to his Legion.

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When Fulgrim offers him the chance to lead an expedition in search of an ancient and destructive xenos weapon, the Iron Warriors and the Emperor's Children unite and venture deep into the heart of the great warp-rift known only as 'the Eye'. Pursued by a ragged band of survivors from

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*Isstvan V and the revenants of a dead
eldar world, they must work quickly if
they are to unleash the devastating
power of the Angel Exterminatus
Information Visualization is a
relatively young field that is acquiring
more and more concensus in both
academic and industrial*

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environments. 'Information Visualization' explores the use of computer-supported interactive graphical representations to explain data and amplify cognition. It provides a means to communicate ideas or facts about the data, to validate hypotheses, and facilitates

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the discovery of new facts via exploration. This book introduces the concepts and methods of Information Visualization in an easy-to-understand way, illustrating how to pictorially represent structured and unstructured data, making it easier to comprehend and interpret. Riccardo

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Mazza focuses on the human aspects of the process of visualization rather than the algorithmic or graphic design aspects.

This book constitutes the refereed proceedings of the Second International Conference on Theory and Practice of Digital Libraries, TPDFL

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2012 - the successor of the ECDL (European Conference on Research and Advanced Technology for Digital Libraries) - held in Paphos, Cyprus, in September 2012. The 23 full papers, 19 short papers, 15 posters and 8 demonstrations presented in this volume were carefully reviewed and

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selected from 139 submissions. The papers are organized in topical sections on user behavior, mobiles and place, heritage and sustainability, preservation, linked data, analysing and enriching documents, content and metadata quality, folksonomy and ontology,

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information retrieval, organising collections, as well as extracting and indexing.

This book constitutes the refereed proceedings of the 8th Language and Technology Conference: Challenges for Computer Science and Linguistics, LTC 2017, held in Poznan, Poland, in

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November 2017. The 31 revised papers presented in this volume were carefully reviewed and selected from 108 submissions. The papers selected to this volume belong to various fields of: Speech Processing; Multiword Expressions; Parsing; Language Resources and Tools;

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Ontologies and Wordnets; Machine Translation; Information and Data Extraction; Text Engineering and Processing; Applications in Language Learning; Emotions, Decisions and Opinions; Less-Resourced Languages. Advances in Knowledge-Based and Intelligent Information and

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Engineering Systems

*Theory and Practice of Digital
Libraries*

*18th International Conference,
DASFAA 2013, International
Workshops: BDMA, SNSM, SeCoP,
Wuhan, China, April 22-25, 2013,
Proceedings*

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A Novel

The Language of Stories

*Learning to Classify Text Using
Support Vector Machines*

**The areas of natural
language processing and
computational linguistics
have continued to grow in**

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recent years, driven by the demand to automatically process text and spoken data. With the processing power and techniques now available, research is scaling up from lab prototypes to real-world,

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proven applications. This book teaches the principles of natural language processing, first covering practical linguistics issues such as encoding and annotation schemes, defining words, tokens and parts of

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speech and morphology, as well as key concepts in machine learning, such as entropy, regression and classification, which are used throughout the book. It then details the language-processing functions

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involved, including part-of-
speech tagging using rules
and stochastic techniques,
using Prolog to write phase-
structure grammars,
syntactic formalisms and
parsing techniques,
semantics, predicate logic

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and lexical semantics and
analysis of discourse and
applications in dialogue
systems. A key feature of
the book is the author's
hands-on approach
throughout, with sample code
in Prolog and Perl,

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extensive exercises, and a detailed introduction to Prolog. The reader is supported with a companion website that contains teaching slides, programs and additional material. The second edition is a complete

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revision of the techniques
exposed in the book to
reflect advances in the
field the author redesigned
or updated all the chapters,
added two new ones and
considerably expanded the
sections on machine-learning

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techniques.

This book constitutes the
thoroughly refereed
proceedings of the 7th
International Joint
Conference on Knowledge
Discovery, Knowledge
Engineering and Knowledge

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Management, IC3K 2015, held
in Lisbon, Portugal, in
November 2015. The 25 full
papers presented together
with 2 invited papers were
carefully reviewed and
selected from 280
submissions. The papers are

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organized in topical sections on knowledge discovery and information retrieval; knowledge engineering and ontology development; and knowledge management and information sharing.

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This book constitutes the
proceedings of the 14th
German Conference on
Multiagent System
Technologies, MATES 2016,
held in Klagenfurt, Austria,
in September 2016. 12 long
papers and 5 short papers

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were carefully reviewed and
selected from 28
submissions. MATES 2016
conference talks covered a
broad area of topics of
interest including MAS
engineering and modeling,
issues of human-agent

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interaction, collaboration
and coordination, agent-
based adaptation and
optimization, and
applications of MAS, in
particular in the smart
energy domain.