

Access Free Social Networks
And The Semantic Web 1st
Edition

**Social Networks
And The Semantic
Web 1st Edition**

*Social network analysis
applications have*

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*experienced tremendous
advances within the last
few years due in part to
increasing trends towards
users interacting with
each other on the
internet. Social networks*

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*are organized as graphs,
and the data on social
networks takes on the form
of massive streams, which
are mined for a variety of
purposes. Social Network
Data Analytics covers an*

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*important niche in the
social network analytics
field. This edited volume,
contributed by prominent
researchers in this field,
presents a wide selection
of topics on social*

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*network data mining such
as Structural Properties
of Social Networks,
Algorithms for Structural
Discovery of Social
Networks and Content
Analysis in Social*

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Networks. This book is also unique in focussing on the data analytical aspects of social networks in the internet scenario, rather than the traditional sociology-

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*driven emphasis prevalent
in the existing books,
which do not focus on the
unique data-intensive
characteristics of online
social networks. Emphasis
is placed on simplifying*

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*the content so that
students and practitioners
benefit from this book.
This book targets advanced
level students and
researchers concentrating
on computer science as a*

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*secondary text or
reference book. Data
mining, database,
information security,
electronic commerce and
machine learning
professionals will find*

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*this book a valuable
asset, as well as primary
associations such as ACM,
IEEE and Management
Science.*

*Collaborative working has
been increasingly viewed*

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as a good practice for organizations to achieve efficiency. Organizations that work well in collaboration may have access to new sources of funding, deliver new,

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*improved, and more
integrated services, make
savings on shared costs,
and exchange knowledge,
information and expertise.
Collaboration and the
Semantic Web: Social*

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*Networks, Knowledge
Networks and Knowledge
Resources showcases
cutting-edge research on
the intersections of
Semantic Web,
collaborative work, and*

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*social media research,
exploring how the
resources of so-called
social networking
applications, which bring
people together to
interact and encourage*

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*sharing of personal
information and ideas, can
be tapped by Semantic Web
techniques, making shared
Web contents readable and
processable for machine
and intelligent*

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applications, as well as humans. Semantic technologies have shown their potential for integrating valuable knowledge, and they are being applied to the

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composition of digital learning and working platforms. Integrated semantic applications, linked data, social networks, and networked digital solutions can now

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be used in collaborative environments and present participants with the context-aware information that they need.

The Semantic Web represents a vision for

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how to make the huge amount of information on the Web automatically processable by machines on a large scale. For this purpose, a whole suite of standards, technologies

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and related tools have been specified and developed over the last couple of years and they have now become the foundation for numerous new applications. A

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Developer's Guide to the Semantic Web helps the reader to learn the core standards, key components and underlying concepts. It provides in-depth coverage of both the what-

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is and how-to aspects of the Semantic Web. From Yu's presentation, the reader will obtain not only a solid understanding about the Semantic Web, but also learn how to

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combine all the pieces to build new applications on the Semantic Web. The second edition of this book not only adds detailed coverage of the latest W3C standards such

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*as SPARQL 1.1 and RDB2RDF,
it also updates the
readers by following
recent developments. More
specifically, it includes
five new chapters on
schema.org and semantic*

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markup, on Semantic Web technologies used in social networks and on new applications and projects such as data.gov and Wikidata and it also provides a complete coding

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*example of building a
search engine that
supports Rich Snippets.
Software developers in
industry and students
specializing in Web
development or Semantic*

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Web technologies will find in this book the most complete guide to this exciting field available today. Based on the step-by-step presentation of real-world projects, where

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the technologies and standards are applied, they will acquire the knowledge needed to design and implement state-of-the-art applications.

Construct, analyze, and

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visualize networks with networkx, a Python language module. Network analysis is a powerful tool you can apply to a multitude of datasets and situations. Discover how

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to work with all kinds of networks, including social, product, temporal, spatial, and semantic networks. Convert almost any real-world data into a complex network--such as

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*recommendations on co-
using cosmetic products,
muddy hedge fund
connections, and online
friendships. Analyze and
visualize the network, and
make business decisions*

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based on your analysis. If you're a curious Python programmer, a data scientist, or a CNA specialist interested in mechanizing mundane tasks, you'll increase your

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*productivity
exponentially. Complex
network analysis used to
be done by hand or with
non-programmable network
analysis tools, but not
anymore! You can now*

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automate and program these tasks in Python. Complex networks are collections of connected items, words, concepts, or people. By exploring their structure and individual elements,

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we can learn about their meaning, evolution, and resilience. Starting with simple networks, convert real-life and synthetic network graphs into networkx data structures.

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Look at more sophisticated networks and learn more powerful machinery to handle centrality calculation, blockmodeling, and clique and community detection.

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*Get familiar with
presentation-quality
network visualization
tools, both programmable
and interactive--such as
Gephi, a CNA explorer.
Adapt the patterns from*

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*the case studies to your
problems. Explore big
networks with NetworKit, a
high-performance networkx
substitute. Each part in
the book gives you an
overview of a class of*

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networks, includes a practical study of networkx functions and techniques, and concludes with case studies from various fields, including social networking,

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*anthropology, marketing,
and sports analytics.*

*Combine your CNA and
Python programming skills
to become a better network
analyst, a more
accomplished data*

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*scientist, and a more
versatile programmer. What
You Need: You will need a
Python 3.x installation
with the following
additional modules: Pandas
(>=0.18), NumPy (>=1.10),*

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`matplotlib (>=1.5),
networkx (>=1.11), python-
louvain (>=0.5), NetworKit
(>=3.6), and
generalizesimilarity. We
recommend using the
Anaconda distribution that`

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*comes with all these
modules, except for python-
louvain, NetworkKit, and
generalizedsimilarity, and
works on all major modern
operating systems.*

Social Web Evolution:

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*Integrating Semantic
Applications and Web 2.0
Technologies
Semantic Web
Personalization and
Context Awareness
Special Issue on Digital*

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*Ecosystems and Social
Networks*

*Decentralized Management
and Exchange of Knowledge
and Information*

*Architecture Protocols and
Applications*

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This work connects the concepts and the methods of social networks and the semantic web to support the analysis of a social semantic web that combines human intelligence with machine learning and natural

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language processing. In this context, social networks, as instances of the social web, are capable in delivering social network data and document collections on a tremendous scale, inducing thematic dynamics that

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cannot be achieved by traditional expert resources. The question of an automatic conversion, annotation and processing, however, is central to the debate of the benefits of the social semantic web.

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*Which kind of technologies
and methods are available,
adequate and contribute to
the processing of this
rapidly rising flood of
information and at the same
time being capable of using
the wealth of information in*

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this large, but more importantly decentralized internet. The present work researches the performance of social semantic-induced categorization by means of different document models. We will shed light on the

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question, to which level social networks and social ontologies contribute to selected areas within the information retrieval area. Libraries have always been an inspiration for the standards and technologies

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developed by semantic web activities. However, except for the Dublin Core specification, semantic web and social networking technologies have not been widely adopted and further developed by major digital

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library initiatives and projects. Yet semantic technologies offer a new level of flexibility, interoperability, and relationships for digital repositories. Kruk and McDaniel present semantic

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web-related aspects of current digital library activities, and introduce their functionality; they show examples ranging from general architectural descriptions to detailed usages of specific

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ontologies, and thus stimulate the awareness of researchers, engineers, and potential users of those technologies. Their presentation is completed by chapters on existing prototype systems such as

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*JeromeDL, BRICKS, and
Greenstone, as well as a
look into the possible
future of semantic digital
libraries. This book is
aimed at researchers and
graduate students in areas
like digital libraries, the*

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semantic web, social networks, and information retrieval. This audience will benefit from detailed descriptions of both today's possibilities and also the shortcomings of applying semantic web technologies to

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*large digital repositories
of often unstructured data.
This edited volume
demonstrates the potential
of mixed-methods designs for
the research of social
networks and the utilization
of social networks for other*

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*research. Mixing methods
applies to the combination
and integration of
qualitative and quantitative
methods. In social network
research, mixing methods
also applies to the
combination of structural*

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and actor-oriented approaches. The volume provides readers with methodological concepts to guide mixed-method network studies with precise research designs and methods to investigate social

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*networks of various sorts.
Each chapter describes the
research design used and
discusses the strengths of
the methods for that
particular field and for
specific outcomes.
The aim of Sentiment*

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Analysis is to define automatic tools able to extract subjective information from texts in natural language, such as opinions and sentiments, in order to create structured and actionable knowledge to

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be used by either a decision support system or a decision maker. Sentiment analysis has gained even more value with the advent and growth of social networking.

Sentiment Analysis in Social Networks begins with an

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*overview of the latest
research trends in the
field. It then discusses the
sociological and
psychological processes
underling social network
interactions. The book
explores both semantic and*

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machine learning models and methods that address context-dependent and dynamic text in online social networks, showing how social network streams pose numerous challenges due to their large-scale, short, noisy,

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context- dependent and dynamic nature. Further, this volume: Takes an interdisciplinary approach from a number of computing domains, including natural language processing, machine learning, big data, and

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*statistical methodologies
Provides insights into
opinion spamming, reasoning,
and social network analysis
Shows how to apply sentiment
analysis tools for a
particular application and
domain, and how to get the*

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*best results for
understanding the
consequences Serves as a one-
stop reference for the state-
of-the-art in social media
analytics Takes an
interdisciplinary approach
from a number of computing*

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domains, including natural language processing, big data, and statistical methodologies Provides insights into opinion spamming, reasoning, and social network mining Shows how to apply opinion mining

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tools for a particular application and domain, and how to get the best results for understanding the consequences Serves as a one-stop reference for the state-of-the-art in social media analytics

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*Using Social Semantic Web
Data for Privacy Policies*

*Engineering Knowledge in the
Age of the Semantic Web
A Semantic Framework for
Video Social Networks
Computational Collective*

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*Intelligence. Semantic Web,
Social Networks and
Multiagent Systems*

**The Social Web (including
services such as MySpace,
Flickr, last.fm, and
WordPress) has captured the
attention of millions of**

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users as well as billions of dollars in investment and acquisition. Social websites, evolving around the connections between people and their objects of interest, are encountering boundaries in the areas of

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**information integration,
dissemination, reuse,
portability, searchability,
automation and demanding
tasks like querying. The
Semantic Web is an ideal
platform for interlinking
and performing operations on**

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diverse person- and object-related data available from the Social Web, and has produced a variety of approaches to overcome the boundaries being experienced in Social Web application areas. After a short

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overview of both the Social Web and the Semantic Web, Breslin et al. describe some popular social media and social networking applications, list their strengths and limitations, and describe some

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**applications of Semantic Web
technology to address their
current shortcomings by
enhancing them with
semantics. Across these
social websites, they
demonstrate a twofold
approach for interconnecting**

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the islands that are social websites with semantic technologies, and for powering semantic applications with rich community-created content. They conclude with observations on how the

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application of Semantic Web technologies to the Social Web is leading towards the "Social Semantic Web" (sometimes also called "Web 3.0"), forming a network of interlinked and semantically-rich content and knowledge.

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**The book is intended for
computer science
professionals, researchers,
and graduates interested in
understanding the
technologies and research
issues involved in applying
Semantic Web technologies to**

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social software.

Practitioners and developers interested in applications such as blogs, social networks or wikis will also learn about methods for increasing the levels of automation in these forms of

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Web communication.

**This book constitutes the
refereed proceedings of the
4th European Semantic Web
Conference, ESWC 2007, held
in Innsbruck, Austria, in
June 2007. Coverage includes
semantic Web services,**

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**ontology learning, inference
and mapping, social semantic
Web, ontologies,
personalization, foundations
of the semantic Web, natural
languages and ontologies,
and querying and Web data
models.**

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Inhaltsangabe: Abstract: In the last years the web underwent a drastic shift from a static, centralised information system to a dynamic, user-generated, distributed and open platform, and users changed

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from passive consumers to active participants, interacting, creating and sharing content. This 'new' web is called Web 2.0. In the era of this movement new Social Web applications emerged creating an

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**environment for people to
publish, share and discuss
content, plus enabling
people to create descriptive
profiles of themselves for
self-expression and build
social networks consisting
of relationships with others**

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with the purpose of interaction and communication. With the increasing popularity of such social networking applications the number of users has scaled up and is still growing. Not only the

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number of users but also the web traffic is an indicator to the growing importance of social networking platforms which are now among the most visited websites. With over 100 million unique visitors worldwide, Facebook is one

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of the most popular
networking sites on the web,
moreover the site ranks
third in the top visited
sites on the web only being
surpassed by Google and
Yahoo! according to Alexa.
YouTube (with over 80

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million unique visitors), MySpace (with about 60 million unique visitors) and Flickr (about 30 million unique visitors) are other examples of prominent social networking platforms. However, the availability of

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such a huge amount of information within the social networking sites and the open nature of the services and their usage also attracts the attention of parties with marketing purposes or malicious

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**intent. Users are thereby
put at risk of online
stalking, phishing, identity
theft, spamming, passing on
data to third parties and
privacy issues which are
related to personal data
exposure due to insufficient**

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**access control. By
maintaining social networks
and actively participating
in Social Web activities
like interacting with
others, users unwittingly
expose sensitive and
personal or inappropriate,**

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even reputation-damaging data not only to friends but to an audience that mostly remains invisible and consists of strangers or acquaintances that potentially are not supposed to see such information.

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Thus the revealed information can lead to major consequences if read out of context or read by parties, like authorities or job recruiters, for whom this information was not intended. The reputation of

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**social networking sites has
been slightly [...]
In the digital age, numerous
technological tools are
available to enhance
business processes. When
these tools are used
effectively, knowledge**

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sharing and organizational success are significantly increased. Social Media Marketing: Breakthroughs in Research and Practice contains a compendium of the latest academic material on the use, strategies, and

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**applications of social media
marketing in business today.
Including innovative studies
on email usage, social
interaction technologies,
and internet privacy, this
publication is an ideal
source for managers,**

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**corporate trainers,
researchers, academics, and
students interested in the
business applications of
social media marketing.
The Social Semantic Web
Natural Language Processing
for the Semantic Web**

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**Encyclopedia of Social
Network Analysis and Mining
Social Networks and the
Semantic Web
Semantic Web and Peer-to-
Peer**

This book reports on the latest,

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cutting-edge scholarship on
integrating social network and
spatial analyses in the built
environment. It sheds light on
conceptualization and
Implementation of such
integration, integration for intra-

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city level analysis, as well as integration for inter-city level analysis. It explores the use of new data sources concerning human and urban dynamics and provides a discussion of how social network and spatial

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analyses could be synthesized for a more nuanced understanding of the built environment. As such this book will be a valuable resource for scholars focusing on city-related networks in a number of 'urban'

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disciplines, including but not limited to urban geography, urban informatics, urban planning, urban sociology, and urban studies.

The past ten years have seen a rapid growth in the numbers of

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people signing up to use Web-based social networks (hundreds of millions of new members are now joining the main services each year) with a large amount of content being shared on these networks (tens of billions of

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content items are shared each month). With this growth in usage and data being generated, there are many opportunities to discover the knowledge that is often inherent but somewhat hidden in these networks. Web

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mining techniques are being used to derive this hidden knowledge. In addition, the Semantic Web, including the Linked Data initiative to connect previously disconnected datasets, is making it possible to

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connect data from across various social spaces through common representations and agreed upon terms for people, content items, etc. In this book, we detail some current research being carried out to semantically represent the

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implicit and explicit structures on the Social Web, along with the techniques being used to elicit relevant knowledge from these structures, and we present the mechanisms that can be used to intelligently mesh these semantic

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representations with intelligent knowledge discovery processes. We begin this book with an overview of the origins of the Web, and then show how web intelligence can be derived from a combination of web and Social

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Web mining. We give an overview of the Social and Semantic Webs, followed by a description of the combined Social Semantic Web (along with some of the possibilities it affords), and the various

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semantic representation formats for the data created in social networks and on social media sites. Provenance and provenance mining is an important aspect here, especially when data is combined from

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multiple services. We will expand on the subject of provenance and especially its importance in relation to social data. We will describe extensions to social semantic vocabularies specifically designed for

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community mining purposes (SIOCM). In the last three chapters, we describe how the combination of web intelligence and social semantic data can be used to derive knowledge from the Social Web, starting at the

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community level (macro), and then moving through group mining (meso) to user profile mining (micro).

This book introduces core natural language processing (NLP) technologies to non-

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experts in an easily accessible way, as a series of building blocks that lead the user to understand key technologies, why they are required, and how to integrate them into Semantic Web applications. Natural

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language processing and Semantic Web technologies have different, but complementary roles in data management. Combining these two technologies enables structured and unstructured data

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to merge seamlessly. Semantic Web technologies aim to convert unstructured data to meaningful representations, which benefit enormously from the use of NLP technologies, thereby enabling applications such as connecting

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text to Linked Open Data,
connecting texts to each other,
semantic searching, information
visualization, and modeling of
user behavior in online networks.
The first half of this book
describes the basic NLP

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processing tools: tokenization, part-of-speech tagging, and morphological analysis, in addition to the main tools required for an information extraction system (named entity recognition and relation

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extraction) which build on these components. The second half of the book explains how Semantic Web and NLP technologies can enhance each other, for example via semantic annotation, ontology linking, and population.

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These chapters also discuss sentiment analysis, a key component in making sense of textual data, and the difficulties of performing NLP on social media, as well as some proposed solutions. The book

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finishes by investigating some applications of these tools, focusing on semantic search and visualization, modeling user behavior, and an outlook on the future.

Social Networks and the

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Semantic Web offers valuable information to practitioners developing social-semantic software for the Web. It provides two major case studies. The first case study shows the possibilities of tracking a

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research community over the Web. It reveals how social network mining from the web plays an important role for obtaining large scale, dynamic network data beyond the possibilities of survey methods.

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The second case study highlights the role of the social context in user-generated classifications in content, such as the tagging systems known as folksonomies.

Semantic Computing

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Social Networks, the Semantic
Web, and the Future of Online
Scientific Collaboration

Sentiment Analysis in Social
Networks

14th International Conference,
EKAW 2004, Whittlebury Hall,

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UK, October 5-8, 2004.

Proceedings

Semantic Network Analysis in
Social Sciences

Social Network Analysis and
Mining Encyclopedia (ESNAM) is
the first major reference work to

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integrate fundamental concepts and research directions in the areas of social networks and applications to data mining. The second edition of ESNAM is a truly outstanding reference appealing to researchers,

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practitioners, instructors and students (both undergraduate and graduate), as well as the general public. This updated reference integrates all basics concepts and research efforts under one umbrella. Coverage

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has been expanded to include new emerging topics such as crowdsourcing, opinion mining, and sentiment analysis. Revised content of existing material keeps the encyclopedia current. The second edition is intended

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for college students as well as public and academic libraries. It is anticipated to continue to stimulate more awareness of social network applications and research efforts. The advent of electronic communication, and in

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particular on-line communities, have created social networks of hitherto unimaginable sizes. Reflecting the interdisciplinary nature of this unique field, the essential contributions of diverse disciplines, from

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computer science, mathematics, and statistics to sociology and behavioral science, are described among the 300 authoritative yet highly readable entries. Students will find a world of information and insight behind

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the familiar façade of the social networks in which they participate. Researchers and practitioners will benefit from a comprehensive perspective on the methodologies for analysis of constructed networks, and the

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data mining and machine learning techniques that have proved attractive for sophisticated knowledge discovery in complex applications. Also addressed is the application of social network

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methodologies to other domains, such as web networks and biological networks.

Science 2.0 uses the resources of Web 2.0 to communicate between scientists, and with the general public. Web 3.0, in turn,

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has brought disruptive technologies such as semantic search, cloud computing and mobile applications into play. The term Pharma 3.0 anticipates the future relationship between drug makers and doctors with

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their patients in light of such technology. From Science 2.0 to Pharma 3.0 examines these developments, discussing the best and worst of Web 2.0 in science communication and health. Successes such as the

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Open Access phenomena and also less successful networks are covered. This title is divided into three parts. The first part considers the Web 2.0 revolution, and the promise of its impact on science

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communication and the state of Science 2.0. The second part looks at impact on Pharma and Health, including attempts to utilise digital in Pharma. The last part looks at the promising disruptive technologies of Web

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3.0, including semantic search in biomedicine and enterprise platforms. The book concludes by looking forward to developments of '3.0' in Pharma and STM publishing. Gives a global overview of success and

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failure in Science 2.0 Presents
useful stories and lessons
learned Gives a clear view of
how semantic search is present
in science platforms and its
potential in STM publishing
With the advance of the Web 2.0,

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video-based social networks such as YouTube have been rapidly gaining popularity. While current video social networks are effective in promoting people's interactions, they are insufficient to represent contents and

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relationships about videos. It is mainly because of their tag-based static annotations, which oversimplify the meanings of rich video contents with limited semantics of videos. We propose a new semantic framework,

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which 1) assists users to annotate videos with a community-based knowledge source, 2) defines annotation graphs to specify topic and types that can represent meanings of videos and their relationships, 3)

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manages a semantic video social network according to the notion of interest groups. We examined the run-time performance with large-scale simulation data sets and showed analytically that the framework is scalable with

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respect to the size of the
annotation graphs.

Semantic Web Personalization
and Context Awareness:
Management of Personal
Identities and Social Networking
communicates relevant recent

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research in Semantic Web-based personalization as applied to the context of information systems. This book reviews Transactions on Large-Scale Data- and Knowledge-Centered Systems XLVII

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Social Network Data Analytics
Semantic Digital Libraries
Handbook of Social Network
Technologies and Applications
4th European Semantic Web
Conference, ESWC 2007,
Innsbruck, Austria, June 3-7,

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2007, Proceedings

Online social networks have already become a bridge connecting our physical daily life with the (web-based) information space. This connection produces a huge volume of data, not only

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about the information itself, but also about user behavior. The ubiquity of the social Web and the wealth of social data offer us unprecedented opportunities for studying the interaction patterns among users so as to

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understand the dynamic mechanisms underlying different networks, something that was previously difficult to explore due to the lack of available data. In this book, we present the architecture of the research for

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social network mining, from a microscopic point of view. We focus on investigating several key issues in social networks. Specifically, we begin with analytics of social interactions between users. The first kinds of

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questions we try to answer are:

What are the fundamental factors that form the different categories of social ties? How have reciprocal relationships been developed from parasocial relationships? How do connected

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users further form groups?

Another theme addressed in this book is the study of social influence. Social influence occurs when one's opinions, emotions, or behaviors are affected by others, intentionally

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or unintentionally. Considerable research has been conducted to verify the existence of social influence in various networks. However, few literature studies address how to quantify the strength of influence between

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users from different aspects. In Chapter 4 and in [138], we have studied how to model and predict user behaviors. One fundamental problem is distinguishing the effects of different social factors such as

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social influence, homophily, and individual's characteristics. We introduce a probabilistic model to address this problem. Finally, we use an academic social network, ArnetMiner, as an example to demonstrate how we apply the

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introduced technologies for mining real social networks. In this system, we try to mine knowledge from both the informative (publication) network and the social (collaboration) network, and to understand the

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interaction mechanisms between the two networks. The system has been in operation since 2006 and has already attracted millions of users from more than 220 countries/regions.

Social Networks and the

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Semantic WebSpringer Science
& Business Media

The LNCS journal Transactions
on Large-Scale Data- and
Knowledge-Centered Systems
focuses on data management,
knowledge discovery, and

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knowledge processing, which are core and hot topics in computer science. Since the 1990s, the Internet has become the main driving force behind application development in all domains. An increase in the demand for

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resource sharing across different sites connected through networks has led to an evolution of data- and knowledge-management systems from centralized systems to decentralized systems enabling

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large-scale distributed applications providing high scalability. This, the 47th issue of Transactions on Large-Scale Data- and Knowledge-Centered Systems, constitutes a special issue focusing on Digital

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Ecosystems and Social Networks. The 9 revised selected papers cover topics that include Social Big Data, Data Analysis, Cloud-Based Feedback, Experience Ecosystems, Pervasive

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Environments, and Smart
Systems.

Social network analysis has
created novel opportunities
within the field of data science.
The complexity of these
networks requires new

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techniques to optimize the extraction of useful information. Graph Theoretic Approaches for Analyzing Large-Scale Social Networks is a pivotal reference source for the latest academic research on emerging algorithms

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and methods for the analysis of social networks. Highlighting a range of pertinent topics such as influence maximization, probabilistic exploration, and distributed memory, this book is ideally designed for academics,

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graduate students, professionals,
and practitioners actively
involved in the field of data
science.

Social Media Marketing:
Breakthroughs in Research and
Practice

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Distributed Semantic Social
Networks

Cities as Spatial and Social
Networks

Complex Network Analysis in
Python

Social Semantic Web Mining

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Semantic Network Analysis in Social Sciences introduces the fundamentals of semantic network analysis and its applications in the social sciences. Readers learn how to easily transform any given text

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into a visual network of words co-occurring together, a process that allows mapping the main themes appearing in the text and revealing its main narratives and biases.

Semantic network analysis is

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particularly useful today with the increasing volumes of text-based information available. It is one of the developing, cutting-edge methods to organize, identify patterns and structures, and understand the

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meanings of our information society. The first chapters in this book offer step-by-step guidelines for conducting semantic network analysis, including choosing and preparing the text, selecting

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desired words, constructing the networks, and interpreting their meanings. Free software tools and code are also presented. The rest of the book displays state-of-the-art studies from around the world

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that apply this method to explore news, political speeches, social media content, and even to organize interview transcripts and literature reviews. Aimed at scholars with no previous

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knowledge in the field, this book can be used as a main or a supplementary textbook for general courses on research methods or network analysis courses, as well as a starting point to conduct your own

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content analysis of large texts. Social networking is a concept that has existed for a long time; however, with the explosion of the Internet, social networking has become a tool for people to connect

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and communicate in ways that were impossible in the past. The recent development of Web 2.0 has provided many new applications, such as Myspace, Facebook, and LinkedIn. The purpose of

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Handbook of Social Network Technologies and Applications is to provide comprehensive guidelines on the current and future trends in social network technologies and applications in the field of Web-based

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Social Networks. This handbook includes contributions from world experts in the field of social networks from both academia and private industry. A number of crucial topics are

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covered including Web and software technologies and communication technologies for social networks. Web-mining techniques, visualization techniques, intelligent social networks,

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Semantic Web, and many other topics are covered.

Standards for social networks, case studies, and a variety of applications are covered as well.

The past ten years have seen a

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rapid growth in the numbers of people signing up to use Web-based social networks (hundreds of millions of new members are now joining the main services each year) with a large amount of content

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being shared on these networks (tens of billions of content items are shared each month). With this growth in usage and data being generated, there are many opportunities to discover the

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knowledge that is often inherent but somewhat hidden in these networks. Web mining techniques are being used to derive this hidden knowledge. In addition, the Semantic Web, including the Linked Data

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initiative to connect previously disconnected datasets, is making it possible to connect data from across various social spaces through common representations and agreed upon terms for people, content

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items, etc. In this book, we detail some current research being carried out to semantically represent the implicit and explicit structures on the Social Web, along with the techniques being used to

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elicit relevant knowledge from these structures, and we present the mechanisms that can be used to intelligently mesh these semantic representations with intelligent knowledge

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discovery processes. We begin this book with an overview of the origins of the Web, and then show how web intelligence can be derived from a combination of web and Social Web mining. We give an

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overview of the Social and Semantic Webs, followed by a description of the combined Social Semantic Web (along with some of the possibilities it affords), and the various semantic representation

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formats for the data created in social networks and on social media sites. Provenance and provenance mining is an important aspect here, especially when data is combined from multiple

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services. We will expand on the subject of provenance and especially its importance in relation to social data. We will describe extensions to social semantic vocabularies specifically designed for

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community mining purposes (SIOCM). In the last three chapters, we describe how the combination of web intelligence and social semantic data can be used to derive knowledge from the

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Social Web, starting at the community level (macro), and then moving through group mining (meso) to user profile mining (micro). Table of Contents: Acknowledgments / Grant Aid / Introduction and

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the Web / Web Mining / The
Social Web / The Semantic
Web / The Social Semantic
Web / Social Semantic Web
Mining / Social Semantic Web
Mining of Communities /
Social Semantic Web Mining

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of Groups / Social Semantic
Web Mining of Users /
Conclusions / Bibliography /
Authors' Biographies
As the first volume of World
Scientific Encyclopedia with
Semantic Computing and

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Robotic Intelligence, this volume is designed to lay the foundation for the understanding of the Semantic Computing (SC), as a core concept to study Robotic Intelligence in the subsequent

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volumes. This volume aims to provide a reference to the development of Semantic Computing, in the terms of "meaning", "context", and "intention". It brings together a series of technical notes, in

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average, no longer than 10 pages in length, each focuses on one topic in Semantic Computing; being review article or research paper, to explain the fundamental concepts, models or

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algorithms, and possible applications of the technology concerned. This volume will address three core areas in Semantic Computing:
Understanding the (possibly naturally-expressed) intentions

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(semantics) of users and
expressing them in a machine-
processable format: Semantics
description languages,
ontology integration,
interoperability Understanding
the meanings (semantics) of

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computational content (of various sorts, including, but is not limited to, text, video, audio, process, network, software and hardware) and expressing them in a machine-processable format in

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Multimedia, IoT, SDN,
wearable computing,
interfacable with mobile
computing, search engines,
question answering, web
services, to support
applications in biomedicine,

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healthcare, manufacturing,
engineering, education,
finance, entertainment,
business, science and
humanity Mapping the
semantics of the user in
context for content retrieval,

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management, creation in the form of structured data, image and video, audio and speech, big data, natural language, deep learning.

Complex Social Networks
Design and Applications

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Integrating Semantic
Applications and Web 2.0
Technologies
First International Conference,
ICCCI 2009, Wroclaw, Poland,
October 5-7, 2009,
Proceedings

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Semantic Search and Social Media in the Pharmaceutical industry and STM Publishing
This work provides two major case studies. The first shows the possibilities of tracking a research community over the Web,

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combining the information obtained from the Web with other data sources, and analyzing the results. The second study highlights the role of the social context in user-generated classifications in content.

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Computational collective intelligence (CCI) is most often understood as a subfield of artificial intelligence (AI) dealing with soft computing methods that enable group decisions to be made or knowledge to be

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processed among autonomous units acting in distributed environments. The needs for CCI techniques and tools have grown significantly recently as many information systems work in distributed environments and use

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distributed resources. Web-based systems, social networks and multi-agent systems very often need these tools for working out consistent knowledge states, resolving conflicts and making decisions. Therefore, CCI is of

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great importance for today's and future distributed systems.

Methodological, theoretical and practical aspects of computational collective intelligence, such as group decision making, collective action coordination, and

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knowledge integration, are considered as the form of intelligence that emerges from the collaboration and competition of many individuals (artificial and/or natural). The application of multiple computational

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intelligence technologies such as fuzzy systems, evolutionary computation, neural systems, consensus theory, etc. , can support human and other collective intelligence and create new forms of CCI in natural

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and/or artificial systems.

Publisher description

Just like the industrial society of the last century depended on natural resources, today's society depends on information and its exchange. Staab and

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Stuckenschmidt structured the selected contributions into four parts: Part I, "Data Storage and Access", prepares the semantic foundation, i.e. data modelling and querying in a flexible and yet scalable manner. These

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foundations allow for dealing with the organization of information at the individual peers. Part II, "Querying the Network", considers the routing of queries, as well as continuous queries and personalized queries under the

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conditions of the permanently changing topological structure of a peer-to-peer network. Part III, "Semantic Integration", deals with the mapping of heterogeneous data representations. Finally Part IV, "Methodology and Systems",

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reports experiences from case studies and sample applications. The overall result is a state-of-the-art description of the potential of Semantic Web and peer-to-peer technologies for information sharing and knowledge

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management when applied jointly.

Semantic Mining of Social
Networks

Open Videobase

Management of Personal

Identities and Social Networking

From Science 2.0 to Pharma 3.0

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Recognize - Construct - Visualize
- Analyze - Interpret

"This book explores the potential of Web 2.0 and its synergies with the Semantic Web and provides state-of-the-art theoretical foundations and technological

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applications"--Provided by
publisher.

The central themes of the 14th
International Conference on
Knowledge Engineering and
Knowledge Management (EKAW
2004) were ontological

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engineering and the Semantic Web. These provide the key foundational and delivery mechanisms for building open, Web-based knowledge services. However, consistent with the tradition of EKAW conferences,

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EKAW 2004 was concerned with all aspects of eliciting, acquiring, modelling and managing knowledge, and its role in the construction of knowledge-intensive systems. Indeed a key aspect of the Knowledge

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Acquisition Workshops (KAWs) held in the US, Europe and Asia over the past 20 years has been the emphasis on 'holistic' knowledge engineering, addressing problem solving, usability, socio-technological

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factors and knowledge modelling, rather than simply analyzing and designing symbol-level inferential mechanisms. The papers included in this volume are thus drawn from a variety of research areas both at the cutting edge of

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research in ontologies and the Semantic Web and in the more traditionally grounded areas of knowledge engineering. A Semantic Web service can be seen as the addition of semantic technologies to Web services to

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produce Web-accessible services that can be described using appropriate ontologies, reasoned about and combined automatically. Since Web services can be seen as Web-accessible computational objects, much of

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the work in this area is also concerned with problem-solving methods (PSMs).

Graph Theoretic Approaches for Analyzing Large-Scale Social Networks

Collaboration and the Semantic

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Web: Social Networks, Knowledge
Networks, and Knowledge
Resources
Social Networks, Knowledge
Networks, and Knowledge
Resources
Breakthroughs in Research and

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Practice

The Semantic Web: Research and
Applications