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The past ten years have seen a 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 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 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 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 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

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mechanisms that can be used to intelligently mesh these semantic 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 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 semantic representation formats for the data created in social networks and on social media

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sites. Provenance and provenance mining is an important aspect here, especially when data is combined from 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 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 community level (macro), and

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then moving through group mining (meso) to user profile mining (micro). Table of Contents: Acknowledgments / Grant Aid / Introduction and 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 of Groups / Social Semantic Web Mining of Users / Conclusions / Bibliography / Authors' Biographies

As the first volume of World Scientific Encyclopedia with Semantic Computing and Robotic Intelligence, this volume

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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 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 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 algorithms, and possible

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applications of the technology concerned. This volume will address three core areas in Semantic Computing:

- Understanding the (possibly naturally-expressed) intentions (semantics) of users and expressing them in a machine-processable format: Semantics description languages, ontology integration, interoperability
- Understanding the meanings (semantics) of 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, interfactable with mobile computing, search engines, question answering, web services, to support applications in biomedicine, healthcare, manufacturing, engineering, education, finance, entertainment, business, science and humanity Mapping the semantics of the user in context for content retrieval, management, creation in the form of structured data, image and video, audio and speech, big data, natural language, deep learning.

Social Networks and the
Semantic Web Springer Science

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& Business Media

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 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 distributed resources. Web-based systems, social networks and multi-agent systems very often need these tools for

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working out consistent knowledge states, resolving conflicts and making decisions. Therefore, CCI is of 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 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 and/or artificial systems.

Architecture Protocols and
Applications

From Science 2.0 to Pharma 3.0
Semantic Web and Peer-to-Peer

The Semantic Web: Research
and Applications

Publisher description

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

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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, 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 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 for college students as well as public and academic libraries. It is anticipated

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to continue to stimulate more awareness of social network applications and research efforts. The advent of electronic communication, and in 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 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 the familiar façade of the social networks in which they participate. Researchers and practitioners will benefit from a comprehensive

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perspective on the methodologies for analysis of constructed networks, and the 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 methodologies to other domains, such as web networks and biological networks. Libraries have always been an inspiration for the standards and technologies 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 library initiatives and projects. Yet semantic technologies offer a new

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level of flexibility, interoperability, and relationships for digital repositories. Kruk and McDaniel present semantic 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 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 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

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libraries, the 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 large digital repositories of often unstructured data.

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 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 particularly useful today with the

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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 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 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 that apply this method to explore news, political speeches, social media content, and even to organize interview transcripts and literature

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reviews. Aimed at scholars with no previous 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 content analysis of large texts.

Distributed Semantic Social
Networks

Encyclopedia of Social Network
Analysis and Mining

Sentiment Analysis in Social
Networks

Semantic Digital Libraries

Complex Social Networks

This book reports on the latest, cutting-edge scholarship on integrating social network and spatial analyses in the built environment. It sheds light on

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conceptualization and Implementation of such integration, integration for intra-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 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' disciplines, including but not limited to urban geography, urban informatics,

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urban planning, urban sociology, and urban studies.

"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

applications"--Provided by publisher.

Social Networks and the 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 research community over the Web. It reveals how

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social network mining from the web plays an important role for obtaining large scale, dynamic network data beyond the possibilities of survey methods.

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.

In the digital age, numerous technological tools are available to enhance business processes.

When these tools are used effectively, knowledge sharing and organizational success are significantly increased. Social Media Marketing:

Breakthroughs in Research and

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Practice contains a compendium of the latest academic material on the use, strategies, and 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, corporate trainers, researchers, academics, and students interested in the business applications of social media marketing.

Using Social Semantic Web Data
for Privacy Policies

Semantic Search and Social
Media in the Pharmaceutical
industry and STM Publishing

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Social Media Marketing:
Breakthroughs in Research and
Practice

Recognize - Construct -
Visualize - Analyze - Interpret
Open Videobase

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 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 understand the dynamic

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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 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 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

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connected 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 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 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

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effects of different social factors such as 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 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 interaction mechanisms between the two networks. The system has been in operation since 2006 and has already attracted

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millions of users from more than 220 countries/regions.

The past ten years have seen a 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 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 knowledge that is often inherent but somewhat hidden in these networks. Web mining techniques are being used to derive this hidden

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knowledge. In addition, the Semantic Web, including the Linked Data 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 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 elicit relevant knowledge from these structures, and we present the mechanisms that can be used to intelligently mesh these semantic representations

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

The LNCS journal Transactions on Large-Scale Data- and

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Knowledge-Centered Systems focuses on data management, knowledge discovery, and 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 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 large-scale distributed applications providing high scalability. This, the 47th issue of

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Transactions on Large-Scale Data- and Knowledge-Centered Systems, constitutes a special issue focusing on Digital Ecosystems and Social Networks. The 9 revised selected papers cover topics that include Social Big Data, Data Analysis, Cloud-Based Feedback, Experience Ecosystems, Pervasive Environments, and Smart Systems.

The Semantic Web represents a vision for 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 and related tools have been specified

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and developed over the last couple of years and they have now become the foundation for numerous new applications. A 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-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 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

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latest W3C standards such 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 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 example of building a search engine that supports Rich Snippets. Software developers in industry and students specializing in Web development or Semantic Web technologies will find in this book the most complete guide to this exciting

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field available today. Based on the step-by-step presentation of real-world projects, where the technologies and standards are applied, they will acquire the knowledge needed to design and implement state-of-the-art applications.

Integrating Semantic
Applications and Web 2.0
Technologies

4th European Semantic Web
Conference, ESWC 2007,
Innsbruck, Austria, June 3-7,
2007, Proceedings

Special Issue on Digital
Ecosystems and Social Networks
On Social Semantics in
Information Retrieval
Mixed Methods Social Networks

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Research

The central themes of the 14th International Conference on Knowledge Engineering and Knowledge Management (EKAW 2004) were ontological 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, EKAW 2004 was concerned with all aspects of eliciting,

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acquiring, modelling and managing knowledge, and its role in the construction of knowledge-intensive systems. Indeed a key aspect of the Knowledge 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 factors and knowledge modelling, rather than simply

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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 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 produce Web-accessible services that can be

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described using appropriate ontologies, reasoned about and combined automatically. Since Web services can be seen as Web-accessible computational objects, much of the work in this area is also concerned with problem-solving methods (PSMs).

The aim of Sentiment Analysis is to define automatic tools able to extract subjective information from texts in natural language, such as opinions and

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sentiments, in order to create structured and actionable knowledge to 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 overview of the latest research trends in the field. It then discusses the sociological and psychological processes underling social network

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interactions. The book explores both semantic and 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, context-dependent and dynamic nature. Further, this volume: Takes an interdisciplinary approach from a number of computing domains, including natural

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*language processing,
machine learning, big
data, and 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 best
results for
understanding the
consequences Serves as a
one-stop reference for
the state-of-the-art in
social media analytics
Takes an*

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interdisciplinary approach from a number of computing 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 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

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social media analytics
This edited volume demonstrates the potential of mixed-methods designs for the research of social networks and the utilization of social networks for other 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

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structural 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 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.

Semantic Web

Personalization and

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

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Knowledge Resources

Social Network Data

Analytics

Cities as Spatial and

Social Networks

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 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 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. 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 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 question, to which level social networks and social ontologies contribute to selected areas within the information retrieval area. Construct, analyze, and 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 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 recommendations on co-using cosmetic products, muddy hedge fund connections, and online friendships. Analyze and visualize the network, and make business decisions 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 productivity exponentially. Complex network analysis used to be done by hand or with non-programmable network analysis tools, but not anymore! You can now 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, we can learn about their meaning, evolution, and resilience. Starting with simple networks, convert real-life

and synthetic network graphs into networkx data structures. Look at more sophisticated networks and learn more powerful machinery to handle centrality calculation, blockmodeling, and clique and community detection. Get familiar with presentation-quality network visualization tools, both programmable and interactive--such as Gephi, a CNA explorer. Adapt the patterns from the case studies to your problems. Explore big networks with NetworkKit, a high-performance networkx

substitute. Each part in the book gives you an overview of a class of networks, includes a practical study of networkx functions and techniques, and concludes with case studies from various fields, including social networking, anthropology, marketing, and sports analytics. Combine your CNA and Python programming skills to become a better network analyst, a more accomplished data 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), matplotlib (≥ 1.5), networkx (≥ 1.11), python-louvain (≥ 0.5), NetworkKit (≥ 3.6), and generalizesimilarity. We recommend using the Anaconda distribution that comes with all these modules, except for python-louvain, NetworkKit, and generalizesimilarity, and works on all major modern operating systems. Social network analysis has created novel opportunities within the field of data science. The complexity of

these networks requires new 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 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, graduate students,

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

This work provides two major case studies. The first shows the possibilities of tracking a research community over the Web, 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.

Semantic Mining of Social Networks

Natural Language

Processing for the Semantic Web

Breakthroughs in Research and Practice

A Developer's Guide to the Semantic Web

Complex Network Analysis in Python

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 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 environment for people to publish, share and discuss content, plus enabling people to create

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descriptive profiles of themselves for self-expression and build social networks consisting of relationships with others 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 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 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 million unique visitors), MySpace (with about 60 million unique visitors)

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and Flickr (about 30 million unique visitors) are other examples of prominent social networking platforms. However, the availability of 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 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 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, even reputation-damaging data not only to friends but to an audience that mostly

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remains invisible and consists of strangers or acquaintances that potentially are not supposed to see such information. 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 social networking sites has been slightly [...]

Social network analysis applications have 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 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 important niche in

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the social network analytics field. This edited volume, contributed by prominent researchers in this field, presents a wide selection of topics on social network data mining such as Structural Properties of Social Networks, Algorithms for Structural Discovery of Social Networks and Content Analysis in Social 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-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 the content so that students and practitioners benefit from this book. This book targets advanced level students and researchers concentrating

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on computer science as a secondary text or reference book. Data mining, database, information security, electronic commerce and machine learning professionals will find this book a valuable asset, as well as primary associations such as ACM, IEEE and Management Science.

With the advance of the Web 2.0, 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 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, which 1) assists users to annotate videos with a community-

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based knowledge source, 2) defines annotation graphs to specify topic and types that can represent meanings of videos and their relationships, 3) manages a semantic video social network according to the notion of interest groups. We examined the runtime performance with large-scale simulation data sets and showed analytically that the framework is scalable with respect to the size of the annotation graphs.

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, ontology learning, inference and mapping, social semantic Web, ontologies, personalization, foundations of the semantic Web, natural languages and ontologies, and

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querying and Web data models.

**First International Conference, ICCCI
2009, Wroclaw, Poland, October 5-7,
2009, Proceedings**

**14th International Conference, EKAW
2004, Whittlebury Hall, UK, October
5-8, 2004. Proceedings**

**Social Web Evolution: Integrating
Semantic Applications and Web 2.0
Technologies**

**Semantic Network Analysis in Social
Sciences**

Social Networks and the Semantic Web

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

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

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

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communication.

Collaborative working has been increasingly viewed 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, improved, and more integrated services, make savings on shared costs, and exchange knowledge, information and expertise. Collaboration and the Semantic Web: Social Networks, Knowledge Networks and Knowledge Resources showcases cutting-edge research on the intersections of Semantic Web, collaborative work, and social media research, exploring how the resources of so-called social networking applications, which bring people together to interact and encourage sharing of personal information and ideas, can be tapped by

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Semantic Web techniques, making shared Web contents readable and processable for machine and intelligent applications, as well as humans.

Semantic technologies have shown their potential for integrating valuable knowledge, and they are being applied to the composition of digital learning and working platforms. Integrated semantic applications, linked data, social networks, and networked digital solutions can now be used in collaborative environments and present participants with the context-aware information that they need.

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

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Semantic Web applications. Natural language processing and Semantic Web technologies have different, but complementary roles in data management. Combining these two technologies enables structured and unstructured data 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 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 processing tools: tokenization, part-of-speech tagging, and morphological analysis, in addition to the main tools required for an

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information extraction system (named entity recognition and relation 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. 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 finishes by investigating some applications of these tools, focusing on semantic search and visualization, modeling user behavior, and an outlook on the future. 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

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to connect 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 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 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 covered including Web and software technologies and communication technologies for social networks. Web-mining techniques, visualization techniques, intelligent social networks, Semantic Web, and many other topics

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

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

Design and Applications

Collaboration and the Semantic Web: Social Networks, Knowledge Networks, and Knowledge Resources

Management of Personal Identities and Social Networking

Social Semantic Web Mining

Science 2.0 uses the resources of Web 2.0 to communicate between scientists, and with the general public. Web 3.0, in turn, has brought disruptive technologies such as semantic search, cloud computing and mobile

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applications into play. The term Pharma 3.0 anticipates the future relationship between drug makers and doctors with 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 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 communication and the state of Science 2.0. The second part

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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 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 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

Just like the industrial society of

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

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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", 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 management when applied jointly.

Decentralized Management and Exchange of Knowledge and Information

A Semantic Framework for Video Social Networks

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The Social Semantic Web
Semantic Computing
Engineering Knowledge in the
Age of the Semantic Web