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BRONSON CABRERA

Spinning the Semantic Web Springer Science & Business Media

Apart from a few articles, no comprehensive study has been written about the learned men and women in America with Czechoslovak roots. That's what this compendium is all about, with the focus on immigration from the period of mass migration and beyond, irrespective whether they were born in their European ancestral homes or whether they have descended from them. Czech and Slovak immigrants, including Bohemian Jews, have brought to the New World their talents, their ingenuity, their technical skills, their scientific knowhow, and their humanistic

and spiritual upbringing, reflecting upon the richness of their culture and traditions, developed throughout centuries in their ancestral home. This accounts for the remarkable success and achievements of these settlers in their new home, transcending through their descendants, as this monograph demonstrates. The monograph has been organized into sections by subject areas, i.e., Scholars, Social Scientists, Biological Scientists, and Physical Scientists. Each individual entry is usually accompanied with literature, and additional biographical sources for readers who wish to pursue a deeper study. The selection of individuals has been strictly based on geographical ground, without regards to their native language or ethical background. This was because under the Habsburg rule the official language was German and any nationalistic aspirations were not tolerated. Consequently, it would be virtually impossible to determine their innate ethnic

roots or how the respective individuals felt. Doing it in any other way would be a mere guessing, and, thus, less objective.

Proceedings of ICOECA 2021 MIT Press

This book comes as one of the outcomes of the COST Action "LUDI - Play for children with disabilities" (2014-2018), a multidisciplinary network including more than 32 countries and 100 researchers and practitioners from the humanistic and technological fields, devoted to study the topic of play for children with disabilities. The primary objective of this book, developed within the scientific activities of the Working Group no. 1, is to review the state of the art of knowledge on play evaluation and to present and discuss existing tools and methodologies for play assessment. Gathering all the existing knowledge in this area of study is urgent; moreover, this knowledge must be harnessed for an innovative goal, potentially disruptive in the overall conception of disability. In fact, it concerns the need to give children with disabilities the opportunity to play as they want, as they wish, in an autonomous way. Establishing the goal of respecting the play for the sake of play of children with disabilities means building an authoritative, appropriate and competent area in favour of these children's needs.

Practitioners - Educators - Specialists - Researchers Morgan & Claypool Publishers

No comprehensive study has been undertaken about the American learned men and women with Czechoslovak roots. The aim of this work is to correct this glaring deficiency, with the focus on men and women in medicine, applied sciences and engineering. It covers immigration from the period of mass

migration and beyond, irrespective whether they were born in their European ancestral homes or whether they have descended from them. This compendium clearly demonstrates the Czech and Slovak immigrants, including Bohemian Jews, have brought to the New World, in these areas, their talents, their ingenuity, the technical skills, their scientific knowhow, as well as their humanistic and spiritual upbringing, reflecting upon the richness of their culture and traditions, developed throughout centuries in their ancestral home. This accounts for their remarkable success and achievements of these settlers in the New World, transcending through their descendants, as this publication demonstrates. The monograph has been organized into sections by subject areas, i.e., Medicine, Allied Health Sciences and Social Services, Agricultural and Food Science, Earth and Environmental Sciences and Engineering. Each individual entry is usually accompanied with literature, and additional biographical sources for readers who wish to pursue a deeper study. The selection of individuals has been strictly based on geographical vantage, without regards to their native language or ethnical background. Some of the entries may surprise you, because their Czech or Slovak ancestry has not been generally known. What is conspicuous is a large percentage of listed individuals being Jewish, which is a reflection of high-level of education and intellect of Bohemian Jews. A prodigious number of accomplished women in this study is also astounding, considering that, in the 19th century, they rarely had careers and most professions refused entry to them.

The Human Semantic Potential MIT Press

An exploration of how design might be led by marginalized

communities, dismantle structural inequality, and advance collective liberation and ecological survival. What is the relationship between design, power, and social justice? “Design justice” is an approach to design that is led by marginalized communities and that aims explicitly to challenge, rather than reproduce, structural inequalities. It has emerged from a growing community of designers in various fields who work closely with social movements and community-based organizations around the world. This book explores the theory and practice of design justice, demonstrates how universalist design principles and practices erase certain groups of people—specifically, those who are intersectionally disadvantaged or multiply burdened under the matrix of domination (white supremacist heteropatriarchy, ableism, capitalism, and settler colonialism)—and invites readers to “build a better world, a world where many worlds fit; linked worlds of collective liberation and ecological sustainability.” Along the way, the book documents a multitude of real-world community-led design practices, each grounded in a particular social movement. Design Justice goes beyond recent calls for design for good, user-centered design, and employment diversity in the technology and design professions; it connects design to larger struggles for collective liberation and ecological survival.

Semantic Network Analysis in Social Sciences Elsevier Health Sciences

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 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 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 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 millions of users from more than 220 countries/regions.

CRC Press

Publisher description

A Bridge Between Mind and Matter Springer Nature

This solid introduction uses the principles of physics and the tools of mathematics to approach fundamental questions of neuroscience.

A Semantic Portal for Scholarly Networking Across Disciplinary

AuthorHouse

A concise introduction to IMT-Advanced Systems, including LTE-Advanced and WiMAX. There exists a strong demand for fully extending emerging Internet services, including collaborative applications and social networking, to the mobile and wireless domain. Delivering such services can be possible only through realizing broadband in the wireless. Two candidate technologies are currently competing in fulfilling the requirements for wireless broadband networks, WiMAX and LTE. At the moment, LTE and its future evolution LTE-Advanced are already gaining ground in terms of vendor and operator support. Whilst both technologies share certain attributes (utilizing Orthogonal Frequency Division Multiple Access (OFDMA) in downlink, accommodating smart antennas and full support for IP-switching, for example), they differ in others (including uplink technology, scheduling, frame structure and mobility support). Beyond technological merits, factors such as deployment readiness, ecosystem maturity and migration feasibility come to light when comparing the aptitude of the two technologies. LTE, LTE-Advanced and WiMAX: Towards

IMT-Advanced Networks provides a concise, no-nonsense introduction to the two technologies, covering both interface and networking considerations. More critically, the book gives a multi-faceted comparison, carefully analyzing and distinguishing the characteristics of each technology and spanning both technical and economic merits. A "big picture" understanding of the market strategies and forecasts is also offered. Discusses and critically evaluates LTE, LTE-Advanced and WiMAX (Legacy and Advanced) Gives an overview of the principles and advances of each enabling technology Offers a feature-by-feature comparison between the candidate technologies Includes information which appeals to both industry practitioners and academics Provides an up-to-date report on market and industry status

Neural Networks Sciendo Migration

A guide to the Semantic Web, which will transform the Web into a structured network of resources organized by meaning and relationships.

Semantic Mining of Social Networks Routledge

"Nature-inspired" includes, roughly speaking, "bio-inspired" + "physical-inspired" + "social-inspired" + and so on. This book contains highly original contributions about how nature is going to shape networking systems of the future. Hence, it focuses on rigorous approaches and cutting-edge solutions, which encompass three classes of major methods: 1) Those that take inspiration from nature for the development of novel problem solving techniques; 2) Those that are based on the use of networks to synthesize natural phenomena; and 3) Those that employ natural materials to compute or communicate.

Networks, Crowds, and Markets Springer Science & Business

Media

Artificial Intelligence federates numerous scientific fields in the aim of developing machines able to assist human operators performing complex treatments---most of which demand high cognitive skills (e.g. learning or decision processes). Central to this quest is to give machines the ability to estimate the likeness or similarity between things in the way human beings estimate the similarity between stimuli. In this context, this book focuses on semantic measures: approaches designed for comparing semantic entities such as units of language, e.g. words, sentences, or concepts and instances defined into knowledge bases. The aim of these measures is to assess the similarity or relatedness of such semantic entities by taking into account their semantics, i.e. their meaning---intuitively, the words tea and coffee, which both refer to stimulating beverage, will be estimated to be more semantically similar than the words toffee (confection) and coffee, despite that the last pair has a higher syntactic similarity. The two state-of-the-art approaches for estimating and quantifying semantic similarities/relatedness of semantic entities are presented in detail: the first one relies on corpora analysis and is based on Natural Language Processing techniques and semantic models while the second is based on more or less formal, computer-readable and workable forms of knowledge such as semantic networks, thesauri or ontologies. Semantic measures are widely used today to compare units of language, concepts, instances or even resources indexed by them (e.g., documents, genes). They are central elements of a large variety of Natural Language Processing applications and knowledge-based treatments, and have therefore naturally been

subject to intensive and interdisciplinary research efforts during last decades. Beyond a simple inventory and categorization of existing measures, the aim of this monograph is to convey novices as well as researchers of these domains toward a better understanding of semantic similarity estimation and more generally semantic measures. To this end, we propose an in-depth characterization of existing proposals by discussing their features, the assumptions on which they are based and empirical results regarding their performance in particular applications. By answering these questions and by providing a detailed discussion on the foundations of semantic measures, our aim is to give the reader key knowledge required to: (i) select the more relevant methods according to a particular usage context, (ii) understand the challenges offered to this field of study, (iii) distinguish room of improvements for state-of-the-art approaches and (iv) stimulate creativity toward the development of new approaches. In this aim, several definitions, theoretical and practical details, as well as concrete applications are presented

Adaptive Pattern Recognition and Neural Networks IGI Global
The world of scholarship is changing rapidly. Increasing demands on scholars, the growing size and complexity of questions and problems to be addressed, and advances in sophistication of data collection, analysis, and presentation require new approaches to scholarship. A ubiquitous, open information infrastructure for scholarship, consisting of linked open data, open-source software tools, and a community committed to sustainability are emerging to meet the needs of scholars today. This book provides an introduction to VIVO, <http://vivoweb.org/>, a tool for representing information about research and researchers -- their scholarly

works, research interests, and organizational relationships. VIVO provides an expressive ontology, tools for managing the ontology, and a platform for using the ontology to create and manage linked open data for scholarship and discovery. Begun as a project at Cornell and further developed by an NIH funded consortium, VIVO is now being established as an open-source project with community participation from around the world. By the end of 2012, over 20 countries and 50 organizations will provide information in VIVO format on more than one million researchers and research staff, including publications, research resources, events, funding, courses taught, and other scholarly activity. The rapid growth of VIVO and of VIVO-compatible data sources speaks to the fundamental need to transform scholarship for the 21st century. Table of Contents: Scholarly Networking Needs and Desires / The VIVO Ontology / Implementing VIVO and Filling It with Life / Case Study: University of Colorado at Boulder / Case Study: Weill Cornell Medical College / Extending VIVO / Analyzing and Visualizing VIVO Data / The Future of VIVO: Growing the Community

Academic and Professional Publishing Morgan & Claypool Publishers

This book provides an introduction to the mathematical and algorithmic foundations of data science, including machine learning, high-dimensional geometry, and analysis of large networks. Topics include the counterintuitive nature of data in high dimensions, important linear algebraic techniques such as singular value decomposition, the theory of random walks and Markov chains, the fundamentals of and important algorithms for machine learning, algorithms and analysis for clustering,

probabilistic models for large networks, representation learning including topic modelling and non-negative matrix factorization, wavelets and compressed sensing. Important probabilistic techniques are developed including the law of large numbers, tail inequalities, analysis of random projections, generalization guarantees in machine learning, and moment methods for analysis of phase transitions in large random graphs. Additionally, important structural and complexity measures are discussed such as matrix norms and VC-dimension. This book is suitable for both undergraduate and graduate courses in the design and analysis of algorithms for data.

From Single Neurons to Networks and Models of Cognition MIT Press

This book is a collection of linguistic and philosophical papers dealing with the semantic problems of determiners. The language under investigation is mostly English, although a few papers deal with French and German, and, to a lesser extent, with Dutch, Polish, Russian and Hebrew. The majority of the contributions focus on the semantics of the definite and indefinite articles, leading into discussions of anaphoricness, specificity, opacity and transparency, referentiality and attributiveness and genericness. The relation of the determiners to other parts of grammar, in particular relativisation and predication, is also investigated. Some attention is also given to quantifiers. In the spirit of pluralism, there is no single paradigm unifying all the papers, rather, the volume reflects elements of the Extended Standard Theory, Generative Semantics, Montague Grammar, (Gricean) Pragmatics and Speech Act Theory.

Semantic Network Analysis in Social Sciences Greenwood

Publishing Group

A survey of computational methods for understanding, generating, and manipulating human language, which offers a synthesis of classical representations and algorithms with contemporary machine learning techniques. This textbook provides a technical perspective on natural language processing—methods for building computer software that understands, generates, and manipulates human language. It emphasizes contemporary data-driven approaches, focusing on techniques from supervised and unsupervised machine learning. The first section establishes a foundation in machine learning by building a set of tools that will be used throughout the book and applying them to word-based textual analysis. The second section introduces structured representations of language, including sequences, trees, and graphs. The third section explores different approaches to the representation and analysis of linguistic meaning, ranging from formal logic to neural word embeddings. The final section offers chapter-length treatments of three transformative applications of natural language processing: information extraction, machine translation, and text generation. End-of-chapter exercises include both paper-and-pencil analysis and software implementation. The text synthesizes and distills a broad and diverse research literature, linking contemporary machine learning techniques with the field's linguistic and computational foundations. It is suitable for use in advanced undergraduate and graduate-level courses and as a reference for software engineers and data scientists. Readers should have a background in computer programming and college-level mathematics. After mastering the material presented, students

will have the technical skill to build and analyze novel natural language processing systems and to understand the latest research in the field.

Semantic Similarity from Natural Language and Ontology Analysis Digital Libraries and Electron

This work deals with the applications of Semantic Publishing technologies in the legal domain, i.e., the use of Semantic Web technologies to address issues related to the Legal Scholarly Publishing. Research in the field of Law has a long tradition in the application of semantic technologies, such as Semantic Web and Linked Data, to real-world scenarios. This book investigates and proposes solutions for three main issues that Semantic Publishing needs to address within the context of the Legal Scholarly Publishing: the need of tools for linking document text to a formal representation of its meaning; the lack of complete metadata schemas for describing documents according to the publishing vocabulary and the absence of effective tools and user interfaces for easily acting on semantic publishing models and theories. In particular, this work introduces EARMARK, a markup meta language that allows one to create markup documents without the structural and semantic limits imposed by markup languages such as XML. EARMARK is a platform to link the content layer of a document with its intended formal semantics and it can be used with the Semantic Publishing and Referencing (SPAR) Ontologies, another topic in this book. SPAR Ontologies are a collection of formal models providing an upper semantic layer for describing the publishing domain. Using EARMARK as a foundation for SPAR descriptions opens up to a semantic characterisation of all the aspects of a document and of its parts. Finally, four user-friendly

tools are introduced: LODE, KC-Viz, Graffoo and Gaffe. They were expressly developed to facilitate the interaction of publishers and domain experts with Semantic Publishing technologies by shielding such users from the underlying formalisms and semantic models of such technologies.

VIVO Springer Nature

This book provides readers with a practical guide to the principles of hybrid approaches to natural language processing (NLP) involving a combination of neural methods and knowledge graphs. To this end, it first introduces the main building blocks and then describes how they can be integrated to support the effective implementation of real-world NLP applications. To illustrate the ideas described, the book also includes a comprehensive set of experiments and exercises involving different algorithms over a selection of domains and corpora in various NLP tasks. Throughout, the authors show how to leverage complementary representations stemming from the analysis of unstructured text corpora as well as the entities and relations described explicitly in a knowledge graph, how to integrate such representations, and how to use the resulting features to effectively solve NLP tasks in a range of domains. In addition, the book offers access to executable code with examples, exercises and real-world applications in key domains, like disinformation analysis and machine reading comprehension of scientific literature. All the examples and exercises proposed in the book are available as executable Jupyter notebooks in a GitHub repository. They are all ready to be run on Google Colaboratory or, if preferred, in a local environment. A valuable resource for anyone interested in the interplay between neural and

knowledge-based approaches to NLP, this book is a useful guide for readers with a background in structured knowledge representations as well as those whose main approach to AI is fundamentally based on logic. Further, it will appeal to those whose main background is in the areas of machine and deep learning who are looking for ways to leverage structured knowledge bases to optimize results along the NLP downstream. *Introduction to Natural Language Processing* Cambridge University Press

Since he began posting in 2003, Dempsey has used his blog to explore nearly every important facet of library technology, from the emergence of Web 2.0 as a concept to open source ILS tools and the push to web-scale library management systems.

Combining Neural Models and Knowledge Graphs for NLP American Library Association

This practical coursebook introduces all the basics of semantics in a simple, step-by-step fashion. Each unit includes short sections of explanation with examples, followed by stimulating practice exercises to complete in the book. Feedback and comment sections follow each exercise to enable students to monitor their progress. No previous background in semantics is assumed, as students begin by discovering the value and fascination of the subject and then move through all key topics in the field, including sense and reference, simple logic, word meaning and interpersonal meaning. New study guides and exercises have been added to the end of each unit to help reinforce and test learning. A completely new unit on non-literal language and metaphor, plus updates throughout the text significantly expand the scope of the original edition to bring it up-to-date with

modern teaching of semantics for introductory courses in linguistics as well as intermediate students.

Theory and Applications Addison Wesley Publishing Company
 "This book presents state-of-the-art advancements and developments in the field, and also brings a selection of

techniques and algorithms about semantic-based visual information retrieval. It covers many critical issues, such as: multi-level representation and description, scene understanding, semantic modeling, image and video annotation, human-computer interaction, and more"--Provided by publisher.

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