Probabilistic Author-Topic Models for Information Discovery

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ABSTRACT

We propose a new unsupervised learning technique for extracting information from large text collections. We model documents as if they were generated by a two-stage stochastic process. Each author is represented by a probability distribution over topics, and each topic is represented as a probability distribution over words for that topic. The words in a multi-author paper are assumed to be the result of a mixture of each authors' topic mixture. The topic-word and author-topic distributions are learned from data in an unsupervised manner using a Markov chain Monte Carlo algorithm. We apply the methodology to a large corpus of 160,000 abstracts and 85,000 authors from the well-known CiteSeer digital library, and learn a model with 300 topics. We discuss in detail the interpretation of the results discovered by the system including specific topic and author models, ranking of authors by topic and topics by author, significant trends in the computer science literature between 1990 and 2002, parsing of abstracts by topics and authors and detection of unusual papers by specific authors. An online query interface to the model is also discussed that allows interactive exploration of author-topic models for corpora such as CiteSeer.

Categories and Subject Descriptors

I.2.6 [Artificial Intelligence]: Learning

Keywords

Unsupervised learning, Gibbs sampling, text modeling

1. INTRODUCTION

With the advent of the Web and various specialized digital libraries, the automatic extraction of useful information from text has become an increasingly important research area in data mining. In this paper we discuss a new algorithm that extracts both the topics expressed in large text document collections and models how the authors of documents use those topics. The methodology is illustrated using a sample of 160,000 abstracts and 80,000 authors from the well-known CiteSeer digital library of computer science research papers (Lawrence, Giles, and Bollacker, 1999). The algorithm uses a probabilistic model that represents topics as probability distributions over words and documents as being composed of multiple topics. A novel feature of our model is the inclusion of author models, in which authors are modeled as probability distributions over topics. The author-topic models can be used to support a variety of interactive and exploratory queries on the set of documents and authors, including analysis of topic trends over time, finding the authors who are most likely to write on a given topic, and finding the most unusual paper written by a given author. Bayesian unsupervised learning is used to fit the model to a document collection.

Supervised learning techniques for automated categorization of documents into known classes or topics has received considerable attention in recent years (e.g., Yang, 1998). For many document collections, however, neither predefined topics nor labeled documents may be available. Furthermore, there is considerable motivation to uncover hidden topic structure in large corpora, particularly in rapidly changing fields such as computer science and biology, where predefined topic categories may not accurately reflect rapidly evolving content.

Automatic extraction of topics from text, via unsupervised learning, has been addressed in prior work using a number of different approaches. One general approach is to represent the high-dimensional term vectors in a lower-dimensional space. Local regions in the lower-dimensional space can then be associated with specific topics. For example, the WEBSOM system (Lagus et al. 1999) uses non-linear dimensionality reduction via self-organizing maps to represent term vectors in a two-dimensional layout. Linear projection techniques, such as latent semantic indexing (LSI), are also widely used (Berry, Dumais, and O' Brien, 1995). For example, Deerwester et al. (1990), while not using the term "topics" per se, state:

> Roughly speaking, these factors may be thought of as artificial concepts; they represent extracted common meaning components of many different

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Mobile, Ubiquitous, and Intelligent Computing James J. (Jong Hyuk) Park,Hojjat Adeli,Namje Park,Isaac Woungang,2013-08-19 MUSIC 2013 will be the most comprehensive text focused on the various aspects of Mobile Ubiquitous and Intelligent computing MUSIC 2013 provides an opportunity for academic and industry professionals to discuss the latest issues and progress in the area of intelligent technologies in mobile and ubiquitous computing environment MUSIC 2013 is the next edition of the 3rd International Conference on Mobile Ubiquitous and Intelligent Computing MUSIC 12 Vancouver Canada 2012 which was the next event in a series of highly successful International Workshop on Multimedia Communication and Convergence technologies MCC 11 Crete Greece June 2011 MCC 10 Cebu Philippines August 2010   Measuring Scholarly Impact Ying Ding,Ronald Rousseau,Dietmar Wolfram,2014-11-06 This book is an authoritative handbook of current topics technologies and methodological approaches that may be used for the study of scholarly impact The included methods cover a range of fields such as statistical sciences scientific visualization network analysis text mining and information retrieval The techniques and tools enable researchers to investigate metric phenomena and to assess scholarly impact in new ways Each chapter offers an introduction to the selected topic and outlines how the topic technology or methodological approach may be applied to metrics related research Comprehensive and up to date Measuring Scholarly Impact Methods and Practice is designed for researchers and scholars interested in informetrics scientometrics and text mining The hands on perspective is also beneficial to advanced level students in fields from computer science and statistics to information science

Databases Theory and Applications Hua Wang,Mohamed A. Sharaf,2014-07-04 This book constitutes the refereed proceedings of the 25th Australasian Database Conference ADC 2014 held in Brisbane NSW Australia in July 2014 The 15 full papers presented together with 6 short papers and 2 keynotes were carefully reviewed and selected from 38 submissions A large variety of subjects are covered including hot topics such as data warehousing database integration mobile databases cloud distributed and parallel databases high dimensional and temporal data image video retrieval and databases database performance and tuning privacy and security in databases query processing and optimization semi structured data and XML spatial data processing and management stream and sensor data management uncertain and probabilistic databases web databases graph databases web service management and social media data management   **Advances in Social Computing** Sun-Ki Chai,John Salerno,Patricia L. Mabry,2010-04 This book constitutes the refereed proceedings of the Third International Conference on Social Computing Behavioral Modeling and Prediction SBP 2010 held in Bethseda MD USA in March 2010 The 26 revised full papers and 23 revised poster papers presented together with 4 invited and keynote papers were carefully reviewed and selected from 78 initial submissions The papers cover a wide range of interesting topics such as social network analysis modeling machine learning and data mining social behaviors public health cultural aspects effects and search   **A Practical Guide to Sentiment Analysis** Erik Cambria,Dipankar Das,Sivaji Bandyopadhyay,Antonio

Feraco,2017-04-07 Sentiment analysis research has been started long back and recently it is one of the demanding research topics Research activities on Sentiment Analysis in natural language texts and other media are gaining ground with full swing But till date no concise set of factors has been yet defined that really affects how writers sentiment i e broadly human sentiment is expressed perceived recognized processed and interpreted in natural languages The existing reported solutions or the available systems are still far from perfect or fail to meet the satisfaction level of the end users The reasons may be that there are dozens of conceptual rules that govern sentiment and even there are possibly unlimited clues that can convey these concepts from realization to practical implementation Therefore the main aim of this book is to provide a feasible research platform to our ambitious researchers towards developing the practical solutions that will be indeed beneficial for our society business and future researches as well **Advances in Services Computing** Guojun Wang,Yanbo Han,Gregorio Martínez Pérez,2016-11-09 This book constitutes the refereed proceedings of the 10th Asia Pacific Services Computing Conference APSCC 2016 held in Zhangjiajie China in November 2016 The 38 revised full papers presented in this book were carefully reviewed and selected from 107 submissions The papers cover a wide range of topics in the fields of cloud utility Web computing big data foundations of services computing social peer to peer mobile ubiquitous pervasive computing service centric computing models integration of telecommunication SOA and Web services business process integration and management and security in services **Computer Science and Applications** Ally Hu,2015-06-11 The 2014 Asia Pacific Conference on Computer Science and Applications was held in Shanghai December 27 28 2014 These CSAC 2014 proceedings include 105 selected papers which focus not only on the research of science and technology of computer sciences but also on the research of applications aiming at a quick and immediate effect on **Proceedings of ... ACM/IEEE-CS Joint Conference on Digital Libraries** ,2007 **Social Computing** Subhasish Dasgupta,2010 Social Computing Concepts Methodologies Tools and Applications uncovers the growing and expanding phenomenon of human behavior social constructs and communication in online environments This multiple volume publication presents the latest research on social change evolving networks media and interaction with technology to offer audiences a comprehensive view **IJCAI-05** Leslie Pack Kaelbling,2005 KDD ... ,2005 *Incorporating Background Knowledge in Document Clustering* Samah Jamal Fodeh,2010 **SACMAT 2006** ,2006 **Journal of the American Society for Information Science** American Society for Information Science,1996 **Current Index to Journals in Education** ,2001 *Journal of the American Statistical Association* ,2008 Journal of Management Information Systems ,2008 **Engineering and Mining Journal** ,1878 **The World's Work** ,1913 **The Builder** ,1896

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