# Probabilistic Author Topic Models For Information Discovery

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### Probabilistic Author Topic Models For

**Probabilistic Author›Topic Models for Information Discovery**
ters of the model (the topic-word distributions and author-topic distributions) can be learned from training data con-sisting of documents with known authors Section 3 illus-trates the application of the model to a large collection of abstracts from the CiteSeer system, with examples of spe-ci c topics and speci c author models that are learned by

**1. Probabilistic Author-Topic Models for Information ...**
Conclusions Introduced the probabilistic author-topic model Demonstrated that Bayesian estimation can be used to learn such models from very large text corpora The application to CiteSeerwas shown to extract substantial novel hidden information Topic time-trends Author-topic relations Unusual papers for specific authors Other application for future study

**The Author-Topic Model for Authors and Documents**
23 The author-topic model The author-topic model draws upon the strengths of the two models de ned above, using a topic-based rep-resentation to model both the content of documents and the interests of authors As in the author model, a group of authors, ad, decide to write the document d For each word in the document an author is chosen

**Probabilistic Topic Models - Meetup**
Probabilistic topic models Topic modeling provides methods for automatically organizing, understanding, searching, and summarizing large electronic archives 1 Discover the hidden themes that pervade the collection 2 Annotate the documents according to those themes 3 Use annotations to organize, summarize, search, form predictions

**Probabilistic LSI and Topic Models**

Probabilistic LSI A "generative" model Models each word in a document as a sample from a mixture model Each word is generated from a single topic, different words in the document may be generated from different topics A topic is characterized by a distribution over words Each document is represented as a list of mixing proportions

**Learning Author-Topic Models from Text Corpora**

Learning Author-Topic Models from Text Corpora • 4:3 Fig 1 Eight examples of topics (out of 100 topics in total) from a model fit to NIPS papers from 1987 to 1999—shown are the 10 most likely words and 10 most likely authors per topic Griffiths and Steyvers 2004; Buntine and Jakulin 2004] Topic models ...

**Learning Author-Topic Models from Text Corpora**

Learning Author-Topic Models from Text Corpora 5 In various problems, we have approximated the original term-document matrix using 50-100 orthogonal factors or derived dimensions Roughly speaking, these factorsmaybe thoughtofasarti cialconcepts; theyrep-resent extracted common meaning components of many di erent words and documents

**Context Sensitive Topic Models for Author Influence in ...**

author link topic (ALT) and the author cite topic (ACT) mod-els, which simultaneously model the content of documents, and the interests as well as the influence of authors in certain topics As in the author topic model (ATM)[Rosen-Zvi etal, 2004], ALT models a document as a mixture of topics, with

**Social-network analysis using topic models**

an author uses the word automobilein a document and a searcher uses the word vehiclein a query, topic models as-sume that they might have the same concept (topic) car in mind Based on this assumption, topic models provide methods to infer those latent topics from visible words PLSI introduced a probabilistic generative model to topic 566

**Dynamic Topic Models - Cornell University**

Dynamic Topic Models topic at slice thas smoothly evolved from the kth topic at slice t−1 For clarity of presentation, we now focus on a model with Kdynamic topics evolving as in (1), and where the topic proportion model is fixed at a Dirichlet The technical is-sues associated with modeling the topic ...

**The Author-Topic Model and the author prediction Jiasi Song**

The Author-Topic Model and the author prediction Jiasi Song Computer Science Department of UW-Madison sindgers@cswiscedu Abstract search a The author-topic model is a generative model for documents that extends Latent Dirichilet Allocation to include authorship information, which is proposed by Michal Rosen-Zvi et al

**Probabilistic Topic Model**

Probabilistic Topic Model Jie Tang Tsinghua University 2012 2 Why Topic? • Math & Feature Space: SVD -> PCA • Information Retrieval: Tfidf->lsi->plsi->lda • Generative probabilistic model – to study the ability of LSI (Papadimitriou et al, 1998)

**Probabilistic Topic Modelling with Semantic Graph**

the state-of-the-art techniques, namely, author-topic Model (ATM) and topic model with biased propagation (TMBP) Keywords: Topic model · Semantic graph · DBpedia 1 Introduction Topic models, such as Probabilistic Latent Semantic Analysis (PLSA) [7]and Latent Dirichlet Analysis (LDA) [2], have been remarkably successful in ana-lyzing textual

**Probabilistic Models for Discovering E›Communities**

the Author-Topic model combined with the Topic-Word and Author-Word models and regards the generation of a documentasa ectedbybothfactors inahierarchical man-ner Fig 3(c) presents the hierarchical Bayesian structure According to the Author-Topic model in Fig 3(c), for each observed word !in document d, an author xis drawn

**The Structural Topic Model and Applied Social Science**

1 Topic Models and Social Science Over the last decade probabilistic topic models, such as Latent Dirichlet Allocation (LDA), have become a common tool for understanding large text corpora [1]1 Although originally developed for descriptive and exploratory purposes, social scientists are increasingly seeing the value of topic

**topicmodels: An R Package for Fitting Topic Models**

Aug 05, 2010 · 2 topicmodels: An R Package for Fitting Topic Models assumed to be uncorrelated The correlated topics model (CTM;Blei and La erty2007) is an extension of the LDA model where correlations between topics are allowed

**Latent Topic Networks: A Versatile Probabilistic ...**

Latent Topic Networks: A Versatile Probabilistic Programming Framework for Topic Models James Foulds JFOULDS@UCSCEDU Shachi H Kumar SHACHIHKUMAR@SOEUCSCEDU Lise Getoor GETOOR@SOEUCSCEDU Department of Computer Science, University of California, Santa Cruz, CA 95064 USA Abstract Topic models have become increasingly promi-

**Joint Latent Topic Models for Text and Citations**

These models also assign a probabilistic membership to documents in the latent topic-space, allowing us to view and process the documents in this lower-dimensional space Most of the models in this framework such as Dynamic topic models [5, 15], Pachinko Allocation [11], Correlated Topic Model [3], etc, model various aspects of document

**Probabilistic Explicit Topic Modeling - BYU ScholarsArchive**

Probabilistic Explicit Topic Modeling Joshua Aaron Hansen Brigham Young University - Provo Follow this and additional works at:https://scholarsarchivebyuedu/etd Part of theComputer Sciences Commons This Thesis is brought to you for free and open access by BYU ScholarsArchive It has been accepted for inclusion in All Theses and Dissertations

**Topic Model Tutorial Part 1 – The Intuition**

23/05/16 4 Conference dinner - I sit at a table with a probability proportional to the number of people already sitting there - If everybody does the same and there are more and more