

CALL FOR CHAPTERS

(Manuscript Proposal Submission Deadline: **April 30, 2014**)

Text Mining, Web Content Mining, and Visualisation Use Cases Using Freely Available Tools (Working Title)

Editor: Dr. Markus Hofmann, Institute of Technology Blanchardstown, Ireland

Publisher: Chapman & Hall/CRC Data Mining and Knowledge Discovery Series

<http://www.crcpress.com/browse/series/chdaminodis>

Associated website: <http://www.text-mining-book.com>

INTRODUCTION

Semi and unstructured textual data is forming the basis of many advanced analytics projects. Often these type of data are available in abundance without being used to improve competitive or other advantages. Many freely available tools such as RapidMiner, Knime, R, Tableau, Python NLTK, Manyeyes.com, etc. can offer highly advanced solutions in extracting hidden information from textual data sources.

However, many open source or freely available software applications, lack of application-oriented documentation which is often a barrier to use the software by potential users. The proposed book aims to address this issue and lower the barrier of entry by demonstrating how to apply the applications in many relevant domains.

The proposed book will be aimed at different levels of experience starting from entry level leading up to the advanced users, focusing on use cases to explain the functionality and most frequently used techniques and methodologies. The aim is not to produce another data/text mining text book and therefore certain knowledge of data/text mining concepts and techniques can be expected when drafting chapter proposals.

OVERALL OBJECTIVES

The book will provide high-quality practical articles in relation to use cases that showcase analytics of textual data with the use of one or more freely available applications (such as RapidMiner's community edition, IBM's many eyes web application, KNIME, Python libraries, Public Tableau, packages linked to the R project, etc.). Each Use Case has to be accompanied with a dataset and it has to be written in such a manner that the reader can replicate the entire implementation of the use case.

RECOMMENDED TOPICS AND THEMES

Original proposals on all aspects of text mining, web mining or visualisation are invited. Submissions must not duplicate work that any of the authors has published elsewhere or submitted in parallel to any other books, conferences or workshops with proceedings. In addition, it is not always necessary

to produce the best possible mining process on the data. Instead, the aim is to use the data to explain a set of techniques in a practical manner (step by step process).

Possible topics covering all aspects of data mining may include (but are not limited to):

- Data Exploration and Visualisation
- Computational Linguistics
- Machine Translation
- Text Classification and Clustering
- Topic Modelling
- Information Extraction
- Named Entity Recognition
- Document Summarization
- Sentiment Analysis
- Recommender Systems
- Web-Content Mining
- Visualizations of textual and non-textual data
- Systems, languages, and architectures for heterogeneous textual data analysis
- Collaborative analysis of heterogeneous textual data
- Opinion summarization from heterogeneous textual data
- Event identification and prediction from heterogeneous textual data
- Industry-specific applications of visual analysis of heterogeneous textual data (e.g. Retail, Healthcare, Government, etc.)
- Datasets and tasks for visual text analysis of textual data
- High performance computing applied to text analytics

SUBMISSION PROCEDURE

Researchers and practitioners are invited to submit on or before April 30, 2014, a 2 to 4 page manuscript proposal clearly explaining the use case of the proposed chapter and the software that will be introduced. Authors of accepted proposals will be notified by May 31, 2014. The following should be kept in mind:

- The proposed project should provide as much high level detail as possible.
- You need to submit your Curriculum Vitae with the chapter proposal.
- The data needs to be publicly available so that readers of the book can reproduce the use cases.
- The aim is not to produce the perfect process but to use and explain an appropriate number of functionality.
- Chapter proposals can be submitted as MS Word or PDF file.

Full chapters (first submission) of accepted proposals are expected to be submitted by August 31, 2014. All submitted chapters will be reviewed in detail over two iterations.

ABOUT THE EDITOR

Dr. Markus Hofmann teaches at the Institute of Technology Blanchardstown, Ireland, where he focuses on data mining, text mining, data exploration and visualization, and business intelligence. Dr. Hofmann is a member of the Register of Expert Panellists of the Irish Higher Education and Training Awards council, an external examiner to two other third-level institutes, and a specialist in undergraduate and postgraduate course development. He received his PhD from Trinity College Dublin. He recently edited the book **RapidMiner: Data Mining Use Cases and Business Analytics Applications** which is published in the **Chapman & Hall/CRC Data Mining and Knowledge Discovery**

Series, one of the largest collections of data analytics books by a single publisher. The book has been a great success and the publisher encouraged Dr. Hofmann to edit a book on unstructured data analysis due to an evident gap in this space.

ABOUT THE PUBLISHER

A signed Editor Agreement with the Publisher of Chapman & Hall/CRC Data Mining and Knowledge Discovery Series exists. This series is one of the most progressive publications in the area of data analytics and is highly regarded by the community.

Important dates:

Call for Chapters: March 2014

Manuscript proposal for book chapter (2-4 pages): April 30, 2014

Notification and feedback to authors of submitted proposals: May 31, 2014

First Draft of the chapters from authors: August 31, 2014

Review and feedback from the Technical Editor: September 30, 2014

Revised Chapters from authors: November 30, 2014

Final feedback from the Technical Editor to the authors: December 31, 2014

Final camera-ready chapters from authors: February 28, 2015

Final submission to the Taylor and Francis Group: April 2015

Publication of the book: June/July of 2015

Please e-mail all inquiries and proposal submissions to markus.hofmann@itb.ie

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