

Final Call for chapters

Abstracts due: July 20th, 2022

Chapters due: August 30th, 2022

We are in the process of finalizing a book on:

Book title: *Graph Databases and their use in social media and smart cities (TBC)*

Publisher: *Science Publishers and CRC Press, Taylor & Francis Group*

We kindly invite you to submit your work in the form of a book chapter abstract initially, followed by chapter proposals after screening and review.

Objective and Short Description of the Book

This practical book aims at combining various state-of-the-art tools, technologies and techniques to aid understanding and better utilizing the power of Analytics, Data Mining and Graph Databases in the context of Social Media or Smart Cities. The proposed book will strive to support its readers students, researchers, developers, and simple users involved with Data Science and Graph Databases to master the notions, concepts, techniques, and tools necessary to extract data from social media or smart cities applications that facilitate information acquisition, management and prediction.

The provisional contents of the book will indicatively showcase:

- Social Media analytics with hands on real-world examples
- Data mining tools for optimized knowledge acquisition
- How to crawl and mine data from Social Media/ Smart cities applications
- The advantages of Graph Databases
- Graph Databases use cases
 - Understand common patterns and graph components
 - Model data and find solutions using code-level examples written in Python, SQL and Cypher query language
 - Migrating data from Relational to Graph Databases
 - Use analytical techniques and algorithms to mine Graph Database information

Suggested Topics for Book Chapters

The recommended topics for book chapters include, but are not limited to:

1. Social Media Statistics
2. Relational vs. NoSQL Databases
3. Information Network modeling, NoSQL and Machine Learning
4. Graph Databases Literature Review
5. Migration from RD databases to Neo4j
6. Twitter Domain specific data crawling
7. Sentiment Analysis with Graph Databases

8. Forecasting with Graph Databases
9. Data Mining and Forecasting utilizing regression models
10. Graph Databases and their use in smart cities

Important Dates

Abstract proposal submission: July 20th, 2022.

Initial shortlist with feedback to authors: July 25th, 2022

Book chapter deadline: August 30th, 2022

Book chapter reviews: September 10th, 2022

Camera ready chapters: September 20th, 2022

Please submit a book chapter abstract proposal consisting of:

- A) A short title
- B) List of author(s), affiliation(s), contact details including email, ORCID number(s)
- C) An abstract of up to 150-200 words for the proposed chapter
- D) A short description of the proposed chapter and its contents, of up to 400 words
- E) A brief CV of up to 200 words per author

This book intends to provide a concise coverage of Social Media Analytics and Smart Cities research utilizing Graph Databases. Each of the submitted chapters must act as a complete, standalone section and must be original. They should not have been published anywhere else and should not be simultaneously submitted anywhere else for publication.

For queries and chapter abstract proposal submission, kindly send an email to the editor, with subject: "Graph Databases and their use in social media and smart cities " at: c.tjortjis@ihu.edu.gr

Looking forward to receiving your submissions.

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