

Call for Chapters

Knowledge Discovery & Data Mining (KDDM) for Economic Development: Applications, Strategies and Techniques

Editors

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Call for Chapters

Proposals Submission Due: June 30, 2013

Full Chapters Due: December 6, 2013

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Introduction

Management of big data is a business priority. Within the last couple of years the academic discourse in big data and knowledge discovery and data mining (KDDM) capabilities and processes have grown exponentially. This is accompanied by increased interest by practitioners, managers and executives as they attempt to find effective methods to make sense of their growing large volume of data to enable improved strategic decisions. KDDM is viewed as an interdisciplinary field that encompasses artificial intelligence, machine learning, statistics and data mining. However, in the context of organizational implementation, this is further augmented by an intersection of project management, strategy and financial management, and other business, legal, privacy, ethical and security considerations. We contend that all these elements are imperative to the maximization of the benefits of KDDM initiatives including increased competitive advantage. However with the difficult or cumbersome nature of the KDDM process, it is important to share strategies that can simplify this process and facilitate empowerment. This becomes even more important in developing and emerging economies that are increasing their KDDM investments in an attempt to leverage capabilities of KDDM to build businesses, governments and the economy.

Book Objectives

The primary objective of this book is to fill some of the void in the provision of suitable techniques and strategies in the successful application of KDDM across multiple domains and region. The book is primarily focus on topics of interest *to* or *about* developing economies. It is intended to serve as a reference guide for data analyst, managers, executives, researchers and students in how to successfully manage and implement data mining initiatives in organizations.

The book seeks to explain the KDDM process in a simple, practical and easily implementable manner by:

- Identifying and discussing some of the key challenges, issues and considerations in managing data mining projects across all the KDDM processes,
- Discussing some of the key concepts and techniques in developing robust and complete data mining objectives aligned to strategic business objectives,
- Discussing some of the key concepts and techniques necessary for modeling data to satisfy requirements, and
- Discussing the social implications of data mining including security, privacy, ethical and legal considerations.

Target Audience

The book is intended for practitioners, academic researchers, including experienced researchers, graduate and undergraduate students, engaged in KDDM activities particularly in less developed and emerging countries. The discourse on the methods, techniques and best practices presented will of particular interests to persons and organizations that are relatively less experienced in conducting KDDM initiatives. It will also showcase how to design and implement these initiatives.

Recommended topics include, but are not limited to, the following:

- Best practices and methodologies in KDDM
 - KDDM Process models
 - Privacy and security issues in KDDM projects
 - Management of KDDM projects:
 - Techniques and strategies
 - Success criteria
 - Critical success factors
 - Economics of data mining
 - Legal and legislative concerns of big data
 - Cases in KDDM from developing, emerging & transition economies
- Applications and cases of KDDM in businesses and government such as:
 - Education
 - Healthcare
 - Agriculture
 - Tourism
 - Criminal Justice Administration
 - Mining industry
 - Social media
 - Environmental Issues
 - e-Government
 - SMEs
 - Financial and insurance sector
 - Computer security data mining

Submission Procedure

Researchers and practitioners are invited to submit on or before **June 30, 2013**, a 1-3 page chapter proposal clearly outlining and explaining the area of focus, objective and content of the proposed chapter. Authors of accepted proposals will be notified by *July 20, 2013* about the status of their proposals and will be sent chapter writing guidelines. Full chapters are expected to be submitted by **December 6, 2013**. All submitted chapters will be reviewed on a double-blind review basis. Contributors may also be requested to serve as reviewers.

Please send all your submissions and/or enquiries to the editors at kddm4dev@gmail.com. Also visit the website dedicated to the book, <https://sites.google.com/site/kddm4dev2013/> for further details and updates.

Publisher

This book is scheduled to be published by CRC Press, Taylor & Francis Group. For additional information regarding the publisher, please visit www.crcpress.com. This publication is anticipated to be released in 2014.

Important Dates

June 30, 2013: *Proposal Submission Deadline*

July 20, 2013: *Notification of Decision on Proposal*

December 6, 2013: *Full Chapter Submission Deadline*

February 7, 2014: *Review Results Returned*

April 4, 2014: *Final Chapter Submission Deadline*