Data Visualization and Statistical Literacy for Open and Big Data

Part of the Advances in Data Mining and Database Management Book Series

Theodosia Prodromou (University of New England, Australia)

Description:

Data visualization has emerged as a serious scholarly topic, and a wide range of tools have recently been developed at an accelerated pace to aid in this research area. Examining different ways of analyzing big data can result in increased efficiency for many corporations and organizations.

Data Visualization and Statistical Literacy for Open and Big Data highlights methodological developments in the way that data analytics is both learned and taught. Featuring extensive coverage on emerging relevant topics such as data complexity, statistics education, and curriculum development, this publication is geared toward teachers, academicians, students, engineers, professionals, and researchers that are interested in expanding their knowledge of data examination and analysis.
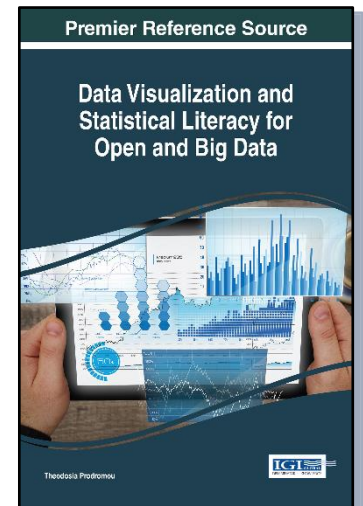
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Topics Covered:

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- Curriculum Development
- Data Complexity
- Data Sets
- Language Analysis
- Statistics Education
- Student Development
- Text Visualization

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Section 3: Gathering and Processing Big Data

Theodosia Prodromou is a Cypriot-Australian mathematician, statistician and mathematics educator, who joined the University of New England in July 2009 to lecture in Mathematics Education. She taught primary and secondary Mathematics in different countries of Europe, and Australia. She has experience of teaching mathematics education to pre-service teachers and in-service teachers within primary and secondary and post-graduate programs. She is involved in European and International funded or unfunded projects. She is a chair of the Australian GeoGebra Institute.