Geographic Data Mining and Knowledge Discovery

Second Edition

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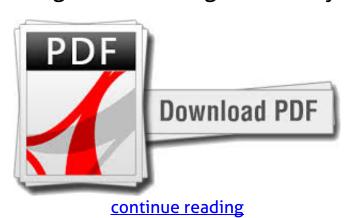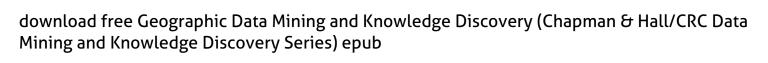# Geographic Data Mining and Knowledge Discovery (Chapman & Hall/CRC Data Mining and Knowledge Discovery Series)

The Definitive Volume on Cutting-Advantage Exploratory Analysis of Massive Spatial and Spatiotemporal Databases Because the publication of the first edition of Geographic Data Mining and Knowledge Discovery, new techniques for geographic data warehousing (GDW), spatial data mining, and geovisualization (GVis) have already been developed. Incorporating these novel advancements, this second edition reflects the current state of the art in the field. Furthermore, there provides been a rise in the use of knowledge discovery techniques due to the increasing collection and storage of data on spatiotemporal procedures and mobile objects. Not used to the next Edition Updated materials on geographic understanding discovery (GKD), GDW research, map cubes, spatial dependency, spatial clustering methods, clustering techniques for trajectory data, the INGENS 2.0 software, and GVis techniques New chapter on data quality issues in GKD New chapter that presents a tree-based partition querying methodology for medoid computation in large spatial databases New chapter that discusses the use of geographically weighted regression as an exploratory technique New chapter that provides an integrated approach to multivariate analysis and geovisualization Five fresh chapters on knowledge discovery from spatiotemporal and cellular items databases Geographic data mining and understanding discovery is a promising youthful discipline with many complicated research problems. Exploring various problems and possible solutions, it will motivate researchers to develop new methods and applications in this emerging field. This book demonstrates this area represents a significant direction in the advancement of a fresh generation of spatial analysis tools for data-rich environments.

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