Computation and Visualization for Understanding Dynamics in Geographic Domains

By May Yuan, Kathleen S. Hornsby

Taylor & Francis Inc. Paperback. Book Condition: new. BRAND NEW, Computation and Visualization for Understanding Dynamics in Geographic Domains, May Yuan, Kathleen S. Hornsby, The world is ever changing, and a comprehensive understanding of the world will not be achieved without theoretical and methodological advances to decode complex dynamics in human and environmental systems. Computation and Visualization for the Understanding of Dynamics in Geographic Domains: A Research Agenda synthesizes key ideas and issues discussed during the UCGIS hosted workshop on computation. It expands upon popular discussions to provide a comprehensive overview of geographic dynamics and new approaches to advance our understanding of geographic dynamics through computation and visualization. The text gives an overview of the state of research and how this research relates to intelligence analysis. It addresses broad issues and challenges in areas, such as spatiotemporal analysis and modeling, spatiotemporal visual analytics; spatiotemporal data mining, spatiotemporal reasoning, and spatiotemporal ontologies. The book also fuses suggestions from workshop participants with literature reviews to propose new research agendas and recommendations for future developments and collaboration. With full coverage on current developments and probably challenges, Computation and Visualization for the Understanding of Dynamics in Geographic Domains: A Research Agenda establishes a foundation...