

■ INNOVATIONS IN GIS 9 ■

Socio-Economic Applications of Geographic Information Science

EDITORS

DAVID KIDNER
GARY HIGGS
SEAN WHITE

Socio Economic Applications Of Geographic Information Science

Fahui Wang

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dramatically changing our understanding of the pathogenesis of infectious diseases and their treatments Each article presents the state of the science with a strong emphasis on new and emerging medical applications The Encyclopedia of Infectious Diseases is organized into five parts The first part examines current threats such as AIDS malaria SARS and influenza The second part addresses the evolution of pathogens and the relationship between human genetic diversity and the spread of infectious diseases The next two parts highlight the most promising uses of molecular identification vector control satellite detection surveillance modeling and high throughput technologies The final part explores specialized topics of current concern including bioterrorism world market and infectious diseases and antibiotics for public health Each article is written by one or more leading experts in the field of infectious diseases These experts place all the latest findings from various disciplines in context helping readers understand what is currently known what the next generation of breakthroughs is likely to be and where more research is needed Several features facilitate research and deepen readers understanding of infectious diseases Illustrations help readers understand the pathogenesis and diagnosis of infectious diseases Lists of Web resources serve as a gateway to important research centers government agencies and other sources of information from around the world Information boxes highlight basic principles and specialized terminology International contributions offer perspectives on how infectious diseases are viewed by different cultures A special chapter discusses the representation of infectious diseases in art With its multidisciplinary approach this encyclopedia helps point researchers in new promising directions and helps health professionals better understand the nature and treatment of infectious diseases

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facilities and Monte Carlo technique is illustrated in simulating urban traffic The book illustrates the range of computational methods and covers common tasks and major issues encountered in a spatial environment It provides a platform for learning technical skills and quantitative methods in the context of addressing real world problems giving you instant access to the tools to resolve major socio economic issues Methods in Social Epidemiology J. Michael Oakes, Jay S. Kaufman, 2006-05-11

Social epidemiology is the study of how social interactions social norms laws institutions conventiona social conditions and behavior affect the health of populations This practical comprehensive introduction to methods in social epidemiology is written by experts in the field It is perfectly timed for the growth in interest among those in public health community health preventive medicine sociology political science social work and other areas of social research Topics covered are Introduction Advancing Methods in Social Epidemiology The History of Methods of Social Epidemiology to 1965 Indicators of Socioeconomic Position Measuring and Analyzing Race Racism and Racial Discrimination Measuring Poverty Measuring Health Inequalities A Conceptual Framework for Measuring Segregation and its Association with Population Outcomes Measures of Residential Community Contexts Using Census Data to Approximate Neighborhood Effects Community based Participatory Research Rationale and Relevance for Social Epidemiology Network Methods in Social Epidemiology Identifying Social Interactions A Review Multilevel Studies Experimental Social Epidemiology Controlled Community Trials Propensity Score Matching Methods for Social Epidemiology Natural Experiments and Instrumental Variable Analyses in Social Epidemiology and Using Causal Diagrams to Understand Common Problems in Social Epidemiology Publication of this highly informative textbook clearly reflects the coming of age of many social epidemiology methods the importance of which rests on their potential contribution to significantly improving the effectiveness of the population based approach to prevention This book should be of great interest not only to more advanced epidemiology students but also to epidemiologists in general particularly those concerned with health policy and the translation of epidemiologic findings into public health practice The cause of achieving a more complete epidemiology envisaged by the editors has been significantly advanced by this excellent textbook Moyses Szklo professor of epidemiology and editor in chief American Journal of Epidemiology Johns Hopkins University Social epidemiology is a comparatively new field of inquiry that seeks to describe and explain the social and geographic distribution of health and of the determinants of health This book considers the major methodological challenges facing this important field Its chapters written by experts in a variety of disciplines are most often authoritative typically provocative and often debatable but always worth reading Stephen W Raudenbush Lewis Sebring Distinguished Service Professor Department of Sociology University of Chicago The roadmap for a new generation of social epidemiologists The publication of this treatise is a significant event in the history of the discipline Ichiro Kawachi professor of social epidemiology Department of Society Human Development and Health Harvard University Methods in Social Epidemiology not only illuminates the difficult questions that future generations of social epidemiologists must ask it also identifies the

paths they must boldly travel in the pursuit of answers if this exciting interdisciplinary science is to realize its full potential. This beautifully edited volume appears at just the right moment to exert a profound influence on the field. Sherman A. James, Susan B. King Professor of Public Policy Studies, professor of Community and Family Medicine, professor of African American Studies, Duke University. *GIS and Evidence-Based Policy Making* Stephen Wise, Max Craglia, 2007-12-28. Although much has been written on evidence-based policy making, this is the first volume to address the potential of GIS in this arena. *GIS and Evidence-Based Policy Making* covers the development of new methodological approaches emphasizing the identification of spatial patterns in social phenomena. It examines organizational issues including the

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