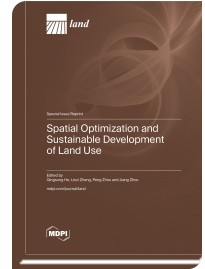*Special Issue Reprint*

Spatial Optimization and Sustainable Development of Land Use

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This reprint presents an extensive collection of research examining the multifaceted challenges and dynamics of land-use in rapidly developing regions, with a particular focus on China. It comprises 14 peer-reviewed articles investigating land-use patterns, conflicts, and management strategies in the context of urbanization and economic development. The collection explores themes including spatial–temporal evolution of land-use, carbon emissions from land-use changes, urban renewal impacts, and approaches to resolving land-use disputes. Case studies from the Yangtze River Delta and Xinjiang provide insights into managing land-use transitions during development. The reprint introduces methodological approaches, including vector-based cellular automata modeling, geographically weighted regression analysis, and frameworks for evaluating efficiency and environmental impacts of land-use. Attention is given to challenges such as environmental optimization of settlements, land-use conflict resolution, and integration of sustainability principles in planning. These studies contribute theoretical advancements and practical implications for policy-makers, urban planners, and environmental managers. The findings are relevant for regions experiencing rapid urbanization and seeking to balance economic development with environmental protection and social equity. This reprint serves as a resource for researchers, practitioners, and decision-makers working in urban planning, management, and sustainable development.

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