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Titolo	Artificial Intelligence-Driven Geographies : Revolutionizing Urban Studies / / by Seyed Navid Mashhadi Moghaddam, Huhua Cao
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Descrizione fisica	1 online resource (455 pages)
Collana	City Development: Issues and Best Practices, , 2731-7781
Disciplina	006.3
Soggetti	Human geography Artificial intelligence Geography Human Geography Artificial Intelligence Regional Geography
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Artificial intelligence -- Data Sources and Processing -- Population distribution and migration patterns -- Land use and land cover change detection -- Environmental risk assessment and climate change impacts -- Socioeconomic inequality and spatial analysis -- Health and disease mapping -- Smart cities and IoT integration -- Transportation and traffic management -- Urban growth and sprawl prediction -- Housing, affordability, and real estate market analysis -- Sustainable development and resource management -- Ethical Considerations and Challenges -- Conclusion and Future Prospects.
Sommario/riassunto	This groundbreaking book delves deep into the history of AI, the major techniques and algorithms of machine learning and deep learning, and the critical role of data sources and processing in these disciplines. It covers a range of AI applications in human geography, including population distribution, land use, environmental risk assessment, and socioeconomic analysis. In urban planning, the book explores AI-driven approaches to smart cities, transportation management, urban growth prediction, and sustainable development, among others. As AI continues to permeate every aspect of human life, it is essential to

understand and address the ethical considerations and challenges associated with AI-driven planning. This book tackles crucial issues such as data privacy, algorithmic bias, equitable access to technology, and the future of employment in the fields of geography and urban planning. In addition, it presents inspiring case studies, highlighting successful AI applications in human geography and urban planning, and offers insights into future research directions and challenges. This book is a must-read for students, researchers, and professionals in geography, urban planning, environmental studies, and related fields. It is also an invaluable resource for policymakers and urban planners seeking to leverage the power of AI to create smarter, more sustainable, and equitable cities and communities. This book equips you with the knowledge and tools to harness the potential of AI, leading the way to a better understanding of our world and a brighter future for all.
