1. Record Nr.	UNINA9911018754403321
Autore	Huang Xiao
Titolo	GeoAI and Human Geography : The Dawn of a New Spatial Intelligence Era / / edited by Xiao Huang, Siqin Wang, John Wilson, Peter Kedron
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	3-031-87421-8
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (528 pages)
Collana	Springer Geography, , 2194-3168
Altri autori (Persone)	WangSiqin WilsonJohn KedronPeter
Disciplina	006.3
Soggetti	Artificial intelligence Human geography Geographic information systems Environmental geography Artificial Intelligence Human Geography Geographical Information System Integrated Geography
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Part 1: Foundations of Human Geography and GeoAI -- Chapter 1: Human Geography In The Era of Big Data And AI -- Chapter 2: The Evolution of Geospatial Artificial Intelligence -- Chapter 3: Pillars of GeoAI In Human Geography -- Part 2: Major GeoAI Advances That Reshape Human Geography -- Chapter 4: Integrating Natural Language Processing In Human Geography -- Chapter 5: Explainable AI In Spatial Analysis -- Chapter 6: Human-centered Computer Vision For Urban Sensing -- Chapter 7: Social Network Analysis In Human Geography -- Chapter 8: Converging GeoAI and CyberGIS For Human Geography -- Chapter 9: High-Performance Geospatial Computing And Computationally Reproducible Human Geography -- Part 3: Branches of Human Geography Intersected With GeoAI -- Chapter 10: GeoAI and Cultural Geography -- Chapter 11: GeoAI and Economic Geography --

Chapter 12: From Space To Context: Contextualizing The Food Environment With GeoAI -- Chapter 13: GeoAI and Political Geography -- Chapter 14: GeoAI and Health Geography -- Chapter 15: A Review On The Application of Geospatial Intelligence In Tourism Geography -- Chapter 16: Artificial Intelligence For Cartography and Maps -- Chapter 17: GeoAI and Transportation -- Chapter 18: GeoAI and Urban Geography -- Part 5: Emerging Trends Future Perspectives -- Chapter 19: Identifying Gentrification With GeoAI: Synthesizing Physical and Social-Economic Dimensions -- Chapter 20: Spatial Biases of Generative AI models -- Chapter 21: Generative AI and Geography Education -- Chapter 22: Towards Ethical Spatial Decision Making In Geospatial Artificial Intelligence -- Chapter 23: Sustainable GeoAI In Human Geography: Reproducible, Replicable, and Expandable -- Chapter 24: The Knowledge Politics Of GeoAI -- Chapter 25: Digital Divide and GeoAI -- Chapter 26: Advancing Human Geography With GeoAI: Transforming Land Use and Land Cover Analysis -- Chapter 27: Cross-Disciplinary Opportunities For GeoAI and Human Geography -- Chapter 28: Shaping Tomorrow: The Future Of GeoAI In Human Geography.

| Sommario/riassunto | This volume outlines a comprehensive journey into how geospatial artificial intelligence (GeoAI) is reshaping our understanding of people and places. Merging traditional geographic inquiry with AI technologies, it offers a holistic view of digital tools and advanced algorithms that redefine human geography. Across twentyeight chapters, the book chronicles the evolution of geographic thought into the GeoAI era. Innovative methodologies—from explainable spatial analysis and natural language processing to human-centered computer vision and high-performance computing—reveal new patterns and relationships beyond conventional approaches. Each contribution highlights both technical strides in data processing and enriched perspectives on cultural, economic, political, health, and urban studies. Showcasing diverse applications in disaster management, climate change adaptation, and urban planning, the volume demonstrates GeoAI's transformative potential. It also engages with ethical, sustainable, and social challenges, emphasizing that technological innovation must serve real-world impacts and inclusivity. Ideal for researchers, students, and practitioners alike, this volume invites you to explore new frontiers at the intersection of technology and human experience. |