GeoAI: A Big Picture View

Artificial Intelligence
Machine that gains human intelligence

Machine Learning
Programs that can learn and predict
without an explicit definition of rules

Deep Learning
Algorithms that learns from big data
based on artificial neural networks

Theories that explain how the
geographical world is constructed
Spatial Principles

Data that describe the physical and social
enviornments
Geospatial Big Data
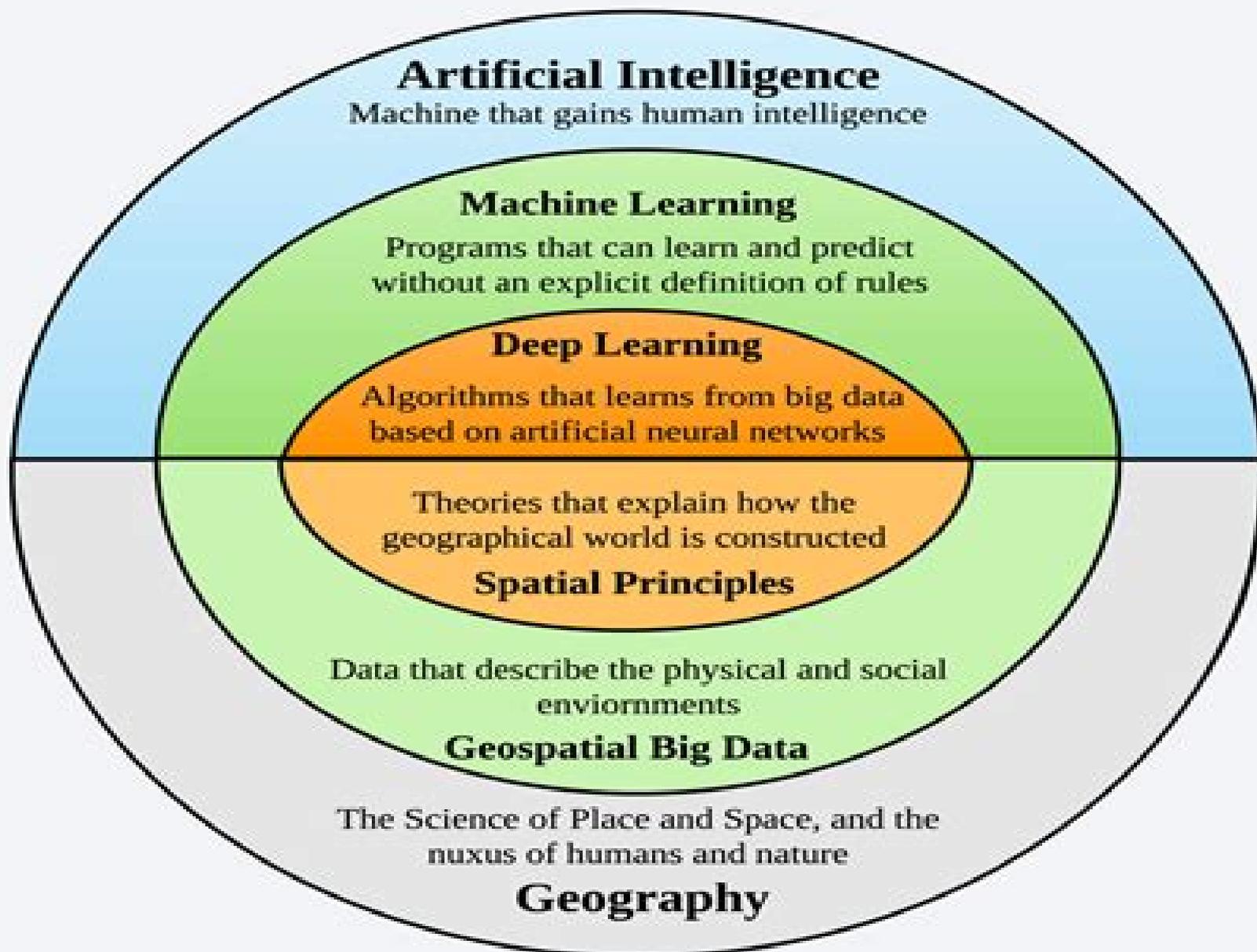
The Science of Place and Space, and the
nuxus of humans and nature
Geography

Artificial Intelligence In Geography

Marc Böhlen (Artist-engineer)

Artificial Intelligence In Geography:

  Artificial Intelligence in Geography Stan Openshaw,Christine Openshaw,1997-07-07 This unique work introduces the basic principles of artificial intelligence with applications in geographical teaching and research GIS and planning Written in an accessible non technical and witty style this book marks the beginning of the Al revolution in geography with major implications for teaching and research The authors provide an easy to understand basic introduction to Al relevant to geography There are no special mathematical and statistical skills needed indeed these might well be a hindrance Al is a different way of looking at the world and it requires a willingness to experiment and readers who are unhindered by the baggage of obsolete technologies and outmoded philosophies of science will probably do best The text provides an introduction to expert systems neural nets genetic algorithms smart systems and artificial life and shows how they are likely to transform geographical enquiry A major methodological milestone in geography The first geographical book on artificial intelligence Al No need for previous mathematical or statistical skills knowledge Accessible style makes a difficult subject available to a wide audience Stan Openshaw is one of the world s leading researchers into geographical computing spatial analysis and GIS   **GeoAI and Human Geography** Xiao Huang,Siqin Wang,John Wilson,Peter Kedron,2025-07-30 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 twenty eight 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   **Handbook of Geospatial Artificial Intelligence** Song Gao,Yingjie Hu,Wenwen Li,2023-12-29 This comprehensive handbook covers Geospatial Artificial Intelligence GeoAI which is the integration of geospatial studies and AI machine deep learning and knowledge graph technologies It explains key fundamental concepts methods models and technologies of GeoAI and discusses the recent advances research tools and applications that range from environmental observation and social sensing to natural disaster responses As the first single volume on this fast emerging domain Handbook of Geospatial Artificial Intelligence is an excellent resource for educators students researchers and practitioners utilizing GeoAI in fields such as information science environment and natural

resources geosciences and geography Features Provides systematic introductions and discussions of GeoAI theory methods technologies applications and future perspectives Covers a wide range of GeoAI applications and case studies in practice Offers supplementary materials such as data programming code tools and case studies Discusses the recent developments of GeoAI methods and tools Includes contributions written by top experts in cutting edge GeoAI topics This book is intended for upper level undergraduate and graduate students from different disciplines and those taking GIS courses in geography or computer sciences as well as software engineers geospatial industry engineers GIS professionals in non governmental organizations and federal state agencies who use GIS and want to learn more about GeoAI advances and applications

Artificial Intelligence-Driven Geographies Seyed Navid Mashhadi Moghaddam,Huhua Cao,2024-09-11 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   *On the Logics of Planetary Computing* Marc Böhlen,2024-11-29 A new breed of low Earth orbit satellites is making planetary scale observation and analysis ubiquitous This book explores how this condition feeds spatially explicit artificial intelligence GeoAI in redefining the study of landscapes and how it impacts one particular land dispute in the Alas Mertajati in Central Bali Indonesia This book combines scholarship from the humanities and engineering to forge a novel way of presenting planetary computing in its GeoAI vernacular From data collection to model evaluation the book describes how multi spectral high resolution satellite data and machine learning algorithms respond to uncommon land cover conditions including sustainable land care practices such as agroforestry while contextualizing the operations within science and media studies Together with the installation logics of geoai org this book offers full spectrum immersion into the unstable nexus of geography and artificial intelligence This book will be of interest to any experimental artist social scientist curious AI engineer or a free range scholar It will likewise appeal

to students and scholars of science technology studies media studies geography and ethnography **Artificial Intelligence, Geographic Information Systems, and Multi-Criteria Decision-Making for Improving Sustainable Development** Sujoy Kumar Jana,Kamalakanta Muduli,Indrajit Pal,Purushottam Meena,2025-08-12 The Asia Pacific region home to some of the world s fastest growing economies faces a range of complex challenges including environmental degradation the increasing frequency of natural hazards and rapid urbanization Addressing these issues which many countries across the globe are facing requires innovative interdisciplinary approaches to promote sustainable development and enhance resilience Geographic information systems GIS when combined with multi criteria decision making MCDM techniques and advanced technologies such as artificial intelligence AI offer powerful tools to tackle these multifaceted problems AIGIS integrates AI with GIS to derive insights from geospatial data The fusion of AI techniques with GIS enhances data analysis visualization and decision making Artificial Intelligence Geographic Information Systems and Multi Criteria Decision Making for Improving Sustainable Development explore how these integrated tools can support decision making processes aimed at advancing sustainable development Drawing on research and insights from diverse disciplines the book looks at how GIS MCDM and AI can provide solutions for disaster risk reduction environmental monitoring urban planning and natural resource management Through diverse case studies and theoretical explorations this book highlights the value of integrated geospatial tools in facilitating informed decision making and fostering resilient societies in the face of evolving challenges It covers a wide range of topics including the following Site soil geology assessments in Fiji Flood risk analysis in Hong Kong Air quality management in Delhi during the COVID 19 pandemic Vegetation health monitoring in Thailand Bringing together the work of academicians practitioners and decision makers the book reflects the growing recognition towards effective and sustainable solutions to complex problems which require a multidimensional approach integrating scientific economic and social considerations By providing the latest research and practical applications of MCDM AI and GIS it contributes to ongoing efforts to build a more sustainable and resilient future for the Asia Pacific region as well as for the world **On the Logics of Planetary Computing** Marc Böhlen (Artist-engineer),2024-10 A new breed of low Earth orbit satellites is making planetary scale observation and analysis ubiquitous This book explores how this condition feeds spatially explicit artificial intelligence GeoAI in redefining the study of landscapes and how it impacts one particular land dispute in the Alas Mertajati in Central Bali Indonesia This book combines scholarship from the humanities and engineering to forge a novel way of presenting planetary computing in its GeoAI vernacular From data collection to model evaluation the book describes how multi spectral high resolution satellite data and machine learning algorithms respond to uncommon land cover conditions including sustainable land care practices such as agroforestry while contextualizing the operations within science and media studies Together with the installation logics of geoai org this book shows how promiscuous making can help us understand the unstable nexus of geography and artificial intelligence This book will be of interest to graduates experimental

artists social scientist curious AI engineer or a free range humanist It will be of great interest to students and scholars of science technology studies media studies geography and ethnography   *Artificial Intelligence and Geographical Information* National Research Council (U.S.). Transportation Research Board,1995   Recent Trends in Geospatial AI Darwish, Dina,Chemingui, Houssem,2024-12-02 Geospatial research is facing both enormous new potential and challenges due to artificial intelligence AI Theoretical advances large data computer hardware and high performance computing platforms that enable the creation training and deployment of AI models in a reasonable amount of time are the main drivers of its rapid development There have been notable developments in the field of geospatial AI particularly in the areas of machine learning deep learning and the most recent advancements in AI technology in both academia These advancements are transforming how spatial data is analyzed and interpreted enabling more accurate predictions real time mapping and enhanced decision making capabilities across various applications Recent Trends in Geospatial AI discusses the emerging potentials challenges and trends in geospatial AI It further explores innovative applications of geospatial AI across a variety of sectors Covering topics such as data processing internet of things IoT and traffic flow optimization this book is an excellent resource for graduate and postgraduate students researchers academicians practitioners and more   Spatial Artificial Intelligence Fivos Papadimitriou,2025-02-08 This is the first book that focuses on the full range of spatial aspects of Artificial Intelligence Spatial AI is defined here as AI that is generated from spatial data or AI that is used for spatial analysis and spatial problem solving or AI that is embedded in spatial physical and or digital domains The reader is presented with a comprehensive exploration of the rise of Spatial AI in the last decades its applications in spatial analysis and its relationships with GeoAI Evolutionary AI and Spatial Computing With chapters addressing the spatial aspects of AI in the context of GenAI AR robotics digital twins etc it is a valuable resource for those who seek to explore the immense potential of Spatial AI its possible limitations in terms of energy and computability as well as its future prospects towards spatially enabled AGI and Artificial Super Intelligence   Recent Advances in Artificial Intelligence and Smart Applications Jyotsna K. Mandal,Mike Hinchey,Satyajit Chakrabarti,2025-10-01 This book includes original unpublished contributions presented in the Second International Conference on Recent Advances in Artificial Intelligence and Smart Applications RAAISA 2024 organized by the Department of CSE University of Engineering and Management Kolkata India during December 14 15 2024 The topics covered are progression of artificial intelligence techniques like smart agent based systems human computer interaction technologies reinforcement learning sentiment analysis recurrent neural networks and its applications genetic algorithms and neural networks   *Artificial Intelligence and Human Intelligence to Derive Meaningful Information on Geographic Movement Described in Text* Scott Pezanowski,2021 There has been much successful research to analyze the movement of people wildlife goods and more where the data is precise movement trajectories This research has mostly ignored geographic movement that comes in the form of text descriptions Descriptions of things moving have an advantage over trajectory data It

often includes rich contextual information that describes what is moving when it moves why it moves and how it moves Challenges exist to utilizing this source like ambiguities in the text s meaning and the author and reader s knowledge and background Still computational advances like Natural Language Processing NLP Information Retrieval IR and Machine Learning are well suited to uncover essential features in the movement descriptions This research makes several contributions to improve the understanding of geographic movement described in text documents It also guides further research to improved methods for utilizing this underused resource First I created a corpus of sentences labeled as describing geographic movement or not Creating this corpus proved difficult without any comparable corpora to start with high human labeling costs and text ambiguities To overcome these challenges I developed an iterative process employing hand labeling crowd voting for agreement and machine learning to predict more labels By merging advances in word embeddings with traditional machine learning models and model ensembling prediction accuracy is acceptable to produce a larger silver standard corpus where a small amount of error in predictions is accepted In addition to the detection of movement my corpus will likely benefit computational processing of geography in text and spatial cognition The corpus contains many geographic place mentions along with contextual information that computational processing can learn important linguistics features that are associated with the place mentions Spatial cognition research can analyze differences in geographic understanding of the text both from the author s side and any reader s side My process also provides a baseline method to detect statements that describe geographic movement Second I show how interpreting geographic movement described in text documents is challenging because of general spatial terms linguistics that make the thing s movement unclear and many temporal references and groupings To overcome these challenges I identified multiple essential characteristics of the movement described that humans use to differentiate descriptions I also explore current computational text processing techniques to analyze the movement characteristics described in the text and show how these characteristics help people understand patterns in larger bodies of text describing movement My findings contribute to an improved understanding of the critical characteristics of geographic movement in text descriptions The third contribution in my research is an initial effort to derive meaningful information from geographic movement descriptions at a large and general scale Geographic Information Retrieval GIR is a sub domain of both IR and GIScience that has emphasized retrieval of documents that mention or are about places along with some focus on geographic feature extraction GIR advances have created an as yet primarily unrealized potential to leverage text documents as sources for geographic scale movement information The geographic movement described in text documents can complement detailed movement data provide an alternative when precise data does not exist and provide the added benefit of rich context about the movement As an initial large scale effort to derive meaningful information from textual data describing geographic movement we applied multiple computational techniques to hundreds of millions of statements First we identify and geolocate the geographic places

mentioned Next we predict those that describe geographic movement Finally because the COVID 19 pandemic highlighted the importance of global movement disruptions we predict if the statement describes not moving or restricted movement Since the data is messy and complicated and the prediction techniques are not perfect we designed and implemented a geovisual analytics system through which a visual interface enables humans to explore initial statement classifications the places mentioned in them and co occurring place mentions to assess the validity of computational methods and provide direct feedback toward improving results We include two user scenarios that show how a human can derive meaningful information about geographic movement through the geovisual analytics system The user scenarios constitute systematic case studies to demonstrate the utility of the approach Existing geographic movement research has improved analysis methods and shown how these methods enhance understanding of human movement wildlife movement and much more This research primarily uses precise movement data acquired through sensors like GPS but ignores such data in text documents The geographic movement described in text documents can complement detailed movement data provide an alternative when precise data does not exist and provide the added benefit of rich context about the movement My research has shown why this information is challenging to use how people differentiate the movement described and how computational methods can utilize the movement s differences to improve sense making with this underused resource **Proceedings of the ... New Zealand Geography Conference** New Zealand Geographical Society,1992 **GeoAI and Its Role in Planetary Health** Abhijeet Sarkar,2025-01-16 GeoAI and its Role in Planetary Health is an essential read for anyone passionate about leveraging technology for environmental stewardship Written by Abhijeet Sarkar this comprehensive book provides a deep dive into the rapidly evolving field of Geographic Artificial Intelligence GeoAI and its application in monitoring and protecting Earth s ecosystems The book covers a broad spectrum of topics from mapping urban heat islands and tracking wildlife migration to monitoring carbon emissions and predicting extreme weather events Sarkar artfully combines technical expertise with engaging narratives to explain how GeoAI is being used to combat deforestation manage coastal resources and inform global climate policies Abhijeet Sarkar seamlessly blends cutting edge technology with real world applications to highlight how GeoAI empowers humanity to tackle pressing planetary issues From climate change mitigation to biodiversity conservation and sustainable urban planning the book addresses critical themes at the intersection of artificial intelligence geography and environmental science Through captivating examples and case studies readers gain insight into how GeoAI is enabling precision agriculture monitoring extreme weather events managing marine and coastal resources and informing global climate policies **Proceedings of the ... New Zealand Geography Conference** ,1989 *Artificial Intelligence and the City* Federico Cugurullo,Federico Caprotti,Matthew Cook,Andrew Karvonen,Pauline McGuirk,Simon Marvin,2023-12-01 This book explores in theory and practice how artificial intelligence AI intersects with and alters the city Drawing upon a range of urban disciplines and case studies the chapters reveal the multitude of repercussions that AI is

having on urban society urban infrastructure urban governance urban planning and urban sustainability Contributors also examine how the city far from being a passive recipient of new technologies is influencing and reframing AI through subtle processes of co constitution The book advances three main contributions and arguments First it provides empirical evidence of the emergence of a post smart trajectory for cities in which new material and decision making capabilities are being assembled through multiple AIs Second it stresses the importance of understanding the mutually constitutive relations between the new experiences enabled by AI technology and the urban context Third it engages with the concepts required to clarify the opaque relations that exist between AI and the city as well as how to make sense of these relations from a theoretical perspective Artificial Intelligence and the City offers a state of the art analysis and review of AI urbanism from its roots to its global emergence It cuts across several disciplines and will be a useful resource for undergraduates and postgraduates in the fields of urban studies urban planning geography architecture urban design science and technology studies sociology and politics   Methods and Techniques in Human Geography Guy M. Robinson,1998-07-03 The study of Human Geography has changed From the quantitative revolution of the 1960s to the recent cultural turn new theories approaches methodologies and arguments have completely remapped the discipline of Geography Methods and Techniques in Human Geography provides the fullest available introduction and assessment of these changes in both quantitative and qualitative Geography Clearly concisely and generously written Methods and Techniques in Human Geography will become the students companion to one of the most widely misunderstood contested and fascinating areas of Human Geography Geography Social Science Contents Introduction Exploring Geographical Data Testing Hypotheses Measuring Associations Multivariate Analysis Generalised Linear Models and Categorical Data Analysis Spatial Allocation Spatial Interaction Spatial Statistics Spatial Models and Spatial Structure Space and Time Systems and Geographical Information Systems Investigating Behaviour and Perception Qualitative Methods Marxist Analysis in Human Geography Feminist Geographies Postmodern Geographies   Human Geography Erin H. Fouberg,Alexander B. Murphy,2020-08-04 Fouberg Murphy Human Geography People Place and Culture 12th Edition teaches students to appreciate the diversity of people places and cultures and understand the role people play in shaping our world The goals of this edition are to provide geographic context to global regional national and local issues and to teach students to think geographically and critically about these issues Human Geography features beautifully designed maps dozens of vibrant photographs taken by the author team and author and guest field notes that help students see how geographers read cultural landscapes and use fieldwork to understand places Fouberg s Human Geography 12th Edition now integrates Threshold Concepts to help students develop their ability to think geographically Once they learn and apply one of these concepts in the context of a given place students integrate it into their thinking and can draw from it as they learn new material and explore other places   **GeoWorld** ,1999   **Soviet Geography** ,1990

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