

Frontiers  
in  
Artificial  
Intelligence  
and  
Applications

# GROUNDING GEOGRAPHIC INFORMATION IN PERCEPTUAL OPERATIONS

Simon Scheider

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Press

# Grounding Geographic Information In Perceptual Operations Frontiers In Artificial Intelligence And Applications

**G.A. Tsihrintzis, M. Virvou, T. Watanabe**



## **Grounding Geographic Information In Perceptual Operations Frontiers In Artificial Intelligence And Applications:**

Grounding Geographic Information in Perceptual Operations Simon Scheider, 2012 Geographic information reflects ontological world views just like any linguistic utterance. However, in comparison with spoken language, all kinds of digital information are affected by the problem of reference to an even larger extent because of the loss of the context of speech. How can the phenomena underlying digital information be referred to in an intersubjective way? The problem is not that machines cannot communicate but that humans frequently misunderstand each other when communicating via machines. This book puts forward a proposal about how semantic reference can be reproduced based on the operations necessary to generate a dataset. These include cognitive constructions as well as perceptual operations, i.e., operations of the human attentional apparatus. Perceptual operations allow one to share information by focusing human attention on Gestalts in the perceived space around the body. Gestalt mechanisms allow observers to make predications, i.e., to relate foci of attention. The author proposes a kind of practical constructivism guided by a formal language. The idea is to describe data bottom up in order to reconstruct the observation and abstraction process instead of presuming abstract ontological concepts. This approach is demonstrated by reconstructing the concept of a road network which underlies an important kind of geographic data.

*Applications of Conceptual Spaces* Frank Zenker, Peter Gärdenfors, 2015-04-16 This volume provides an overview of applications of conceptual spaces theory beginning with an introduction to the modeling tool that unifies the chapters. The first section explores issues of linguistic semantics including speakers' negotiation of meaning. Further sections address computational and ontological aspects of constructing conceptual spaces while the final section looks at philosophical applications. Domains include artificial intelligence and robotics, epistemology and philosophy of science, lexical semantics and pragmatics, agent-based simulation, perspectivism, framing, contrast, sensory modalities and music among others. This collection provides evidence of the wide application range of this theory of knowledge representation. The papers in this volume derive from international experts across different fields including philosophy, cognitive science, linguistics, robotics, computer science and geography. Each contributor has successfully applied conceptual spaces theory as a modeling tool in their respective areas of expertise. Graduates as well as researchers in the areas of epistemology, linguistics, geometric knowledge representation and the mathematical modeling of cognitive processes should find this book of particular interest.

**Legal Knowledge and Information Systems** Burkhard Schäfer, 2012 The 25th edition of the JURIX conference was held in the Netherlands from the 17th till the 19th of December and was hosted by the University of Amsterdam. This year submissions came from 25 countries covering Europe, the Americas, Asia and Australia. These proceedings contain sixteen full and five short papers that were selected for presentation. As usual, they cover a wide range of topics. The majority of contributions deals with formal or computational models of legal argumentation and reasoning, questions of coherence.

evidential reasoning visualisation of argumentation and formal representations of legal narratives are amongst

**Computational Models of Argument** Bart Verheij, Stefan Szeider, Stefan Woltran, 2012 The subject of argumentation has been studied since ancient times but it has seen major innovations since the advent of the computer age Software already exists which can create and evaluate arguments in high stake situations such as medical diagnosis and criminal investigation formal systems can help us appreciate the role of the value judgments which underlie opposing positions and it is even possible to enter into argumentative dialogues as if playing a computer game This book presents the 28 full papers 17 short papers and a number of system demonstrations described in an extended abstract from the 2012 biennial Computational Models of Argument COMMA conference held in Vienna Austria Papers by the invited speakers Professor Trevor Bench Capon Professor Erik Krabbe and Professor Keith Stenning are also included This year for the first time COMMA invited the submission of papers for an innovative applications track and those which were accepted for presentation are included in this volume Argumentation can be studied from many angles including the artificial natural and theoretical systems perspective Presentations at the 2012 conference addressed the subject from these perspectives and many more **Artificial**

**Intelligence Research and Development** D. Riaño, E. Onaindia, M. Cazorla, 2012-10-12 One hundred years after the birth of Alan Turing the great pioneer of computer science artificial intelligence has become so much a part of everyday life that it is hard to imagine the world without it This book contains papers from the 15th International Conference of the Catalan Association of Artificial Intelligence CCIA 2012 held at the Universitat d'Alicant Spain in October 2012 Since 1994 the Catalan Association of Artificial Intelligence ACIA has fostered cooperation between researchers in artificial intelligence within the Catalan speaking community The annual CCIA is its international conference a platform where not only researchers from Catalan speaking countries but also those working in artificial intelligence worldwide have found a place to show discuss and publish the results of their researches and developments The 23 papers presented here which include contributions from the AI community all over the world cover topics such as KDD DM and machine learning natural language processing and recommenders computer vision robotics AI for optimization problems and AI applications in the real world The book also includes the contributions of the two invited keynote speakers at the conference Oscar Cordón and Eduardo Nebot which respectively address the subjects of real world applications of soft artificial intelligence and challenges of automation and safety in field robotics **Computational Approaches to Assistive Technologies for People with**

**Disabilities** N.J. Cercone, K. Naruedomkul, 2013-07-16 Assistive technologies have become increasingly important for people with disabilities in recent years This book is the result of over a decade of research into computational approaches to assistive technology Its chapters are based on a number of graduate theses successfully completed over the past dozen or so years under the supervision of Kanlaya Naruedomkul of Mahidol University in Bangkok Thailand and Nick Cercone of York University Toronto Canada Some applications in the chapters use Thai language examples but the techniques employed are

not restricted to any single language Each chapter is based on the Ph D work of a former or current student suitably updated and presented for interested readers The book is divided into four sections Following an introduction which includes a review of assistive technology products part two covers applications and includes chapters on alternative sign text MT for language learning lexical simplification using word sense disambiguation and detecting and rating dementia through lexical analysis of spontaneous speech Part three deals with theories and systems and includes granules for learning behavior rough sets methods and applications for medical data and multimedia support systems as assistive technology for hearing impaired students Part four presents a conclusion which includes a look into the future Although this book is not a comprehensive treatise on assistive technology it nevertheless provides a fascinating look at recent research and will be of interest to all those whose work involves the application of assistive technologies for people with disabilities

**New Trends in Software Methodologies, Tools and Techniques** Hamido Fujita,Roberto Revetria,2012 Software is the essential enabling means for science and the new economy It helps us to create a more reliable flexible and robust society But software often falls short of our expectations Current methodologies tools and techniques remain expensive and are not yet sufficiently reliable while many promising approaches have proved to be no more than case by case oriented methods This book contains extensively reviewed papers from the eleventh International Conference on New Trends in software Methodology Tools and Techniques SoMeT\_12 held in Genoa Italy in September 2012 The conference provides an opportunity for scholars from the international research community to discuss and share research experiences of new software methodologies and techniques and the contributions presented here address issues ranging from research practices and techniques and methodologies to proposing and reporting solutions for global world business The emphasis has been on human centric software methodologies end user development techniques and emotional reasoning for an optimally harmonized performance between the design tool and the user Topics covered include the handling of cognitive issues in software development to adapt it to the user s mental state and intelligent software design in software utilizing new aspects on conceptual ontology and semantics reflected on knowledge base system models This book provides an opportunity for the software science community to show where we are today and where the future may take us

**Advanced Methods and Technologies for Agent and Multi-Agent Systems** D. Barbucha,M.T. Le,R.J. Howlett,2013-05-14 The field of agent and multi agent systems is concerned with the development and evaluation of sophisticated AI based problem solving and control architectures for both single and multi agent systems This book presents the proceedings of the 7th KES Conference on Agent and Multi agent Systems Technologies and Applications KES AMSTA 2013 held in Hue City Vietnam in May 2013 The KES AMSTA 2013 conference provides an internationally respected forum for scientific research in the technologies and applications of agent and multi agent systems In all 44 papers were selected for oral presentation and publication in this volume Special attention is paid to the feature topics of intelligent technologies and applications in the area of e health social networking self organizing systems economics

and trust management Other topics covered include agent oriented software engineering beliefs engineering desires and intentions representation agent cooperation coordination negotiation organization and communication distributed problem solving specification of agent communication languages formalization of ontologies and conversational agents The book highlights new trends and challenges in agent and multi agent research and will be of interest to the research community working in the fields of artificial intelligence collective computational intelligence robotics dialogue systems and in particular agent and multi agent systems technologies and applications

Information Modelling and Knowledge Bases XXIV Peter Vojtáš, Yasushi Kiyoki, Takehiro Tokuda, Naofumi Yoshida, 2013 With the growth in our reliance on information systems and computer science information modeling and knowledge bases have become a focus for academic attention and research The amount and complexity of information the number of levels of abstraction and the size of databases and knowledge bases all continue to increase and new challenges and problems arise every day This book is part of the series Information Modelling and Knowledge Bases which concentrates on a variety of themes such as the design and specification of information systems software engineering and knowledge and process management

*Databases and Information Systems VII* A. Caplinskas, G. Dzemyda, A. Lupeikiene, 2013-01-03 Databases and information systems are the backbone of modern information technology and are crucial to the IT systems which support all aspects of our everyday life from government education and healthcare to business processes and the storage of our personal photos and archives This book presents 27 of the best revised papers selected from the 43 papers accepted following stringent peer review for the 2012 International Baltic Biennial Conference on Databases and Information Systems Baltic DB IS 2012 held in Vilnius Lithuania in July 2012 The conference provided a forum for the exchange of scientific achievements between the research communities of the Baltic countries and the rest of the world in the area of databases and information systems bringing together researchers practitioners and Ph D students from many countries The subject areas covered at the conference included databases data mining and optimization in IS business modeling cloud computing IS engineering tools and techniques as well as advanced E learning environments and technologies The book also includes presentations from two of the invited speakers at the conference Exponential Growth of ICT How Long Can It Last by Prof Arne S lvsberg and Variable Systems Model in Information Systems Development by Prof Marite Kirikova

Human Language Technologies Arvi Tavast, Kadri Muischnek, Mare Koit, 2012 Human language technologies continue to play an important part in the modern information society This book contains papers presented at the fifth international conference Human Language Technologies The Baltic Perspective Baltic HLT 2012 held in Tartu Estonia in October 2012 Baltic HLT provides a special venue for new and ongoing work in computational linguistics and related disciplines both in the Baltic states and in a broader geographical perspective It brings together scientists developers providers and users of HLT and is a forum for the sharing of new ideas and recent advances in human language processing promoting cooperation between the research communities of computer science and linguistics from the Baltic countries and

the rest of the world Twenty long papers as well as the posters or demos accepted for presentation at the conference are published here They cover a wide range of topics morphological disambiguation dependency syntax and valency computational semantics named entities dialogue modeling terminology extraction and management machine translation corpus and parallel corpus compiling speech modeling and multimodal communication Some of the papers also give a general overview of the state of the art of human language technology and language resources in the Baltic states This book will be of interest to all those whose work involves the use and application of computational linguistics and related disciplines

*Intelligent Decision Technologies* R. Neves-Silva,J. Watada,G.E. Phillips-Wren,2013-06-13 The field of intelligent decision technologies is interdisciplinary in nature bridging computer science with its development of artificial intelligence information systems with its development of decision support systems and engineering with its development of systems This book presents the 45 papers accepted for presentation at the 5th KES International Conference on Intelligent Decision Technologies KES IDT 2013 held in Sesimbra Portugal in June 2013 The conference consists of keynote talks oral and poster presentations invited sessions and workshops on the applications and theory of intelligent decision systems and related areas The conference provides an opportunity for the presentation and discussion of interesting new research results promoting knowledge transfer and the generation of new ideas The book will be of interest to all those whose work involves the development and application of intelligent decision systems

**Intelligent Interactive Multimedia Systems and Services** G.A. Tsihrintzis,M. Virvou,T. Watanabe,2013-06-07 At a time when computers are more widespread than ever intelligent interactive systems have become a necessity The term multimedia systems refers to the coordinated storage processing transmission and retrieval of multiple forms of information such as audio image video animation graphics and text The growth of multimedia services has been exponential as technological progress keeps up with the consumer s need for content The solution of one fits all is no longer appropriate for the wide ranges of users with various backgrounds and needs so one important goal of many intelligent interactive systems is dynamic personalization and adaptivity to users This book presents 37 papers summarizing the work and new research results presented at the 6th International Conference on Intelligent Interactive Multimedia Systems and Services KES IIMSS2013 held in Sesimbra Portugal in June 2013 The conference series focuses on research in the fields of intelligent interactive multimedia systems and services and provides an internationally respected forum for scientific research in related technologies and applications

ECAI 2014 T. Schaub,G. Friedrich,B. O'Sullivan,2014-08 The role of artificial intelligence AI applications in fields as diverse as medicine economics linguistics logical analysis and industry continues to grow in scope and importance AI has become integral to the effective functioning of much of the technical infrastructure we all now take for granted as part of our daily lives This book presents the papers from the 21st biennial European Conference on Artificial Intelligence ECAI 2014 held in Prague Czech Republic in August 2014 The ECAI conference remains Europe s principal opportunity for researchers and practitioners of Artificial

Intelligence to gather and to discuss the latest trends and challenges in all subfields of AI as well as to demonstrate innovative applications and uses of advanced AI technology Included here are the 158 long papers and 94 short papers selected for presentation at the conference Many of the papers cover the fields of knowledge representation reasoning and logic as well as agent based and multi agent systems machine learning and data mining The proceedings of PAIS 2014 and the PAIS System Demonstrations are also included in this volume which will be of interest to all those wishing to keep abreast of the latest developments in the field of AI

*Bulletin of the Atomic Scientists*, 1973-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world

**Spatial and Temporal Reasoning in Geographic Information Systems** Max J. Egenhofer, Reginald G. Golledge, 1998 In an effort to further investigation into critical development facets of geographic information systems GIS this book explores the reasoning processes that apply to geographic space and time As a result of an initiative sponsored by the National Center for Geographic Information and Analysis NCGIA it treats the computational cognitive and social science applications aspects of spatial and temporal reasoning in GIS Essays were contributed by scholars from a broad spectrum of disciplines including geography cartography surveying and engineering computer science mathematics and environmental and cognitive psychology

*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

Spatial Information Theory. Foundations of Geographic Information Science Daniel R. Montello, 2001-09-05 This book constitutes the refereed proceedings of the 5th International Conference on Spatial Information Theory COSIT 2001 held in Morro Bay CA USA in September 2001 The 30 revised full papers presented together with three full keynote papers were carefully reviewed and selected from more than 70 submissions The papers are organized in topical sections on geographical ontology and ontologies qualitative spatio temporal reasoning formalizations



of human spatial cognition space cognition and information systems human and machine approaches to navigation language and space and cognitive mapping      Cognitive Aspects of Human-Computer Interaction for Geographic Information Systems  
T.L. Nyerges,D.M. Mark,Robert Laurini,Max J. Egenhofer,2012-12-06 A significant part of understanding how people use geographic information and technology concerns human cognition This book provides the first comprehensive in depth examination of the cognitive aspects of human computer interaction for geographic information systems GIS Cognitive aspects are treated in relation to individual group behavioral institutional and cultural perspectives Extensions of GIS in the form of spatial decision support systems and SDSS for groups are part of the geographic information technology considered Audience Geographic information users systems analysts and system designers researchers in human computer interaction will find this book an information resource for understanding cognitive aspects of geographic information technology use and the methods appropriate for examining this use      **Geographical Design** Stephen Hirtle,2022-11-10 With GIS technologies ranging from Google Maps and Google Earth to the use of smart phones and in car navigation systems spatial knowledge is often acquired and communicated through geographic information technologies This monograph describes the interplay between spatial cognition research and use of spatial interfaces It begins by reviewing what is known about how humans process spatial concepts and then moves on to discuss how interfaces can be improved to take advantage of those capabilities Special attention is given to a variety of innovative geographical platforms that provide users with an intuitive understanding and support the further acquisition of spatial knowledge The monograph concludes with a discussion of the number of outstanding issues including the changing nature of maps as the primary spatial interface concerns about privacy for spatial information and a look at the future of user centered spatial information systems Table of Contents Introduction Spatial Cognition Technologies Cognitive Interfaces for Wayfinding Open Issues For More Information

# **Grounding Geographic Information In Perceptual Operations Frontiers In Artificial Intelligence And Applications**

## **Book Review: Unveiling the Magic of Language**

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Grounding Geographic Information In Perceptual Operations Frontiers In Artificial Intelligence And Applications**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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