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Spatial Information Theory

9th International Conference, COSIT 2009
Aber Wrach, France, September 2009
Proceedings



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Spatial Information Theory

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Spatial Information Theory Andrew U. Frank, Irene Campari, 1993-09-02 This volume collects the papers presented at the European Conference on Spatial Information Theory COSIT 93 held on the island of Elba Italy in September 1993 Spatial information theory includes disciplinary topics and interdisciplinary issues dealing with the conceptualization and formalization of large scale geographic space It contributes towards a consistent theoretical basis for Geographic Information Systems GIS Geographic information systems are widely used in administration planning and science in many different countries and for a wide variety of applications Research results which relevant for GIS are distributed between many disciplines and contacts between researchers have been limited At the same time the development of GIS has been hindered by the lack of a sound theoretical base This conference was intended to help remedies these problems 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 3001 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 **Spatial Information Theory A Theoretical Basis for GIS** Stephen C. Hirtle, Andrew U. Frank, 1997-10 This book constitutes the refereed proceedings of the 1997 International Conference on Spatial Information Theory COSIT 97 held in Laurel Highlands Pennsylvania USA in October 1997 The 31 revised full papers presented were carefully selected from a total of 66 submissions Also included are seven posters The volume is divided into sections on representations of change structuring of space boundaries and gradations topological models of space formal models of space cognitive aspects of spatial acquisition novel use of spatial information wayfinding and map interpretation representations of spatial concepts new approaches to spatial information **Spatial Information Theory** Kathleen Stewart Hornsby, Christophe Claramunt, Michel Denis, Gérard Ligozat, 2009-09-19 First established in 1993 with a conference in Elba Italy COSIT the International Conference on Spatial Information Theory is widely acknowledged as one of the most portant conferences for the field of spatial information theory This conference series brings together researchers from a wide range of disciplines for intensive scientific changes centered on spatial information theory COSIT submissions typically address research questions drawn from cognitive perceptual and environmental psychology geography spatial information science computer science artificial intelligence cog tive science engineering cognitive anthropology linguistics ontology architecture planning and environmental design Some of the topical areas include for example the cognitive structure of spatial knowledge events and processes in geographic space incomplete or imprecise spatial knowledge languages of spatial relations navigation by organisms and robots ontology of space

communication of spatial information and the social and cultural organization of space to name a few This volume contains the papers presented at the 9th International Conference on Spatial Information Theory COSIT 2009 held in Aber Wrac h France September 21 25 2009 For COSIT 2009 70 full paper submissions were received These papers were carefully reviewed by an international Program Committee based on relevance to the conference intellectual quality scientific significance novelty relation to previously published literature and clarity of presentation After reviewing was completed 30 papers were selected for presentation at the conference and appear in this volume This number of papers reflects the high quality of submissions to COSIT this year

Spatial Information Theory Sara Irina Fabrikant, Martin Raubal, Michela Bertolotto, Clare Davies, Scott Freundschuh, Scott Bell, 2015-09-29 This book constitutes the proceedings of the 12th International Conference on Spatial Information Theory COSIT 2015 held in Santa Fee NM USA in October 2015 The 22 papers presented in this book were carefully reviewed and selected from 52 full paper submissions The following topics are addressed formalizing and modeling space time qualitative spatio temporal reasoning and representation language and space signs images maps and other representations of space navigations by humans and machines

Spatial Information Theory: A Theoretical Basis for GIS Andrew U. Frank, Werner Kuhn, 1995-09-13 This book constitutes the refereed proceedings of the International Conference on Spatial Information Theory COSIT 95 held near Vienna Austria in September 1995 Spatial Information Theory brings together three fields of research of paramount importance for geographic information systems technology namely spatial reasoning representation of space and human understanding of space The book contains 36 fully revised papers selected from a total of 78 submissions and gives a comprehensive state of the art report on this exciting multidisciplinary and highly interdisciplinary area of research and development

Spatial Information Theory. Foundations of Geographic Information Science Werner Kuhn, Michael F. Worboys, 2003-09-15 This book constitutes the refereed proceedings of the International Conference on Spatial Information Theory COSIT 2003 held at Kartause Ittingen Switzerland in September 2003 The 26 revised full papers presented were carefully reviewed and selected from 61 submissions The papers are organized in topical sections on ontologies of space and time reasoning about distances and directions spatial reasoning shapes and diagrams computational approaches reasoning about regions vagueness visualization and landmarks and wayfinding

Spatial Information Theory: Foundations of Geographic Information Science Daniel R. Montello, 2003-06-30 The 5th International Conference on Spatial Information Theory COSIT 2001 took place at the Inn at Morro Bay California USA September 19 23 2001 COSIT grew out of a series of workshops NATO Advanced Study Institutes NSF Specialist Meetings during the 1990s concerned with theoretical and applied aspects of representing large scale space particularly geographic or environmental space this history is elaborated in the prefaces of previous COSIT proceedings These are spaces in which and on which human action takes place and which are represented and processed in digital geographic information systems In these early meetings the need for well founded theories of spatial information

representation and processing was identified particularly theories based on cognition and on computation This concern for theory provided an early foundation for the newly emerging field of geographic information science COSIT is not backed by any particular scientific society but is organized as an independent enterprise The conference series was established in 1993 as an interdisciplinary biennial European conference on the representation and processing of large scale spatial information after a successful international conference on the topic had been organized by Andrew Frank et al in Pisa in 1992 frequently referred to as COSIT 0 After two successful European COSIT conferences with strong North American participation COSIT 93 Island of Elba Italy COSIT 95 Semmering Austria COSIT 97 moved across the pond to the United States and was held in the Laurel Highlands Pennsylvania *Spatial Information Theory* ,2001 **Spatial Information Theory** ,1999

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Spatial Information Theory Introduction

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