

Space-Filling Curve Based Point Clouds Index

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Abstract

Managing large volume points clouds data generated from laser scanner is a challenging problem in Geographic Information System (GIS) and spatial database. Based on analyzing the pros and cons of the existing management methods, this paper presents a method to manage lidar data in databases based on the Hilbert space-filling curve. Each lidar data point (X, Y, and Z) is encoded (indexed) by the 3-D Hilbert curve. Data points are organized together according to their Hilbert codes. The initial encoding level of Hilbert curve is determined by the total number of points and the target record size. The data points are first encoded with this initial level Hilbert curve. After refining and combining processes, the data volume of each group is controlled under the desired size. One record in database represents one data group; the binary blob of the record contains all the data points in one group. Details on constructing 3-D Hilbert curve are discussed. Typical query process "window query" is implemented. Reported in this paper are results based on synthetic and real lidar data collected from ground tripod lidar and airborne lidar equipments.

1. Introduction

LIDAR (Light Detection and Ranging), including both airborne and ground-based laser scanning, is currently a widely used remote sensing technology for fast acquisition of precise and reliable 3-D spatial information. Point clouds generated from laser scanner have been used in many different geo-information areas, such as digital terrain model generation, 3-D modeling of urban environment and landscape analysis (Ackermann, 1999; Palmer and Shan, 2002).

Point clouds data can be represented as multi-dimensional arrays such as 3D (Cartesian coordinates: X, Y, Z) and 4D (Cartesian coordinates and Intensity of returned pulse). Although existing CAD and GIS software can directly import these arrays into main memory as point features, handling millions of data points usually exceeds their computing capacity. The points cloud dataset requires a significant storage capacity, and the loading time of the dataset from files or databases can be unbearable. It is crucial to provide advanced managing and query functions in lidar data handling such that the interest subset of data can be rapidly located and read from the secondary storage. Present database management (DBMS) systems do not provide a simple way to manipulate multi-dimensional arrays; the operations on arrays are very limited and not optimized (Marathe

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Advanced Computing Strategies for Engineering Ian F. C. Smith, Bernd Dömer, 2018-06-09 This double volume set LNAI 10863 10864 constitutes the refereed proceedings of the 25th International Workshop EG ICE 2018 held in Lausanne Switzerland in June 2018 The 58 papers presented in this volume were carefully reviewed and selected from 108 submissions The papers are organized in topical sections on Advanced Computing in Engineering Computer Supported Construction Management Life Cycle Design Support Monitoring and Control Algorithms in Engineering and BIM and Engineering Ontologies

Innovations for Community Services Gerald Eichler, Christian Erfurth, Günter Fahrnberger, 2017-06-12 This book constitutes the refereed proceedings of the 17th International Conference on Innovations for Community Services I4CS 2017 held in Darmstadt Germany in June 2017 The 12 revised full papers presented together with two short papers were carefully reviewed and selected from 31 submissions The papers are organized in topical sections on Social Networks Cooperative Networks Optimization Algorithms Infrastructure Planning Energy Management Short Papers

Progress in Spatial Data Handling Andreas Riedl, Wolfgang Kainz, Gregory A. Elmes, 2006-09-01 Since the first symposium in 1984 the International Symposia on Spatial Data Handling SDH has become a major resource for recent advances in GIS research The International Symposium on Spatial Data Handling is regarded as a premier international research forum for GIS All papers are fully reviewed by an international program committee composed of experts in the field

Pattern Recognition Walter Kropatsch, Robert Sablatnig, Allan Hanbury, 2005-09-14 It is both an honor and a pleasure to hold the 27th Annual Meeting of the German Association for Pattern Recognition DAGM 2005 at the Vienna University of Technology Austria organized by the Pattern Recognition and Image Processing PRIP Group We received 122 contributions of which we were able to accept 29 as oral presentations and 31 as posters Each paper received three reviews upon which decisions were made based on correctness presentation technical depth scientific significance and originality The selection as oral or poster presentation does not signify a quality grading but reflects attractiveness to the audience which is also reflected in the order of appearance of papers in these proceedings The papers are printed in the same order as presented at the symposium and posters are integrated in the corresponding thematic session In putting these proceedings together many people played significant roles which we would like to acknowledge First of all our thanks go to the authors who contributed their work to the symposium Second we are grateful for the dedicated work of the 38 members of the Program Committee for their effort in evaluating the submitted papers and in providing the necessary decision support information and the valuable feedback for the authors Furthermore the Program Committee awarded prizes for the best papers and we want to sincerely thank the donors We were honored to have the following three invited speakers at the conference

Jan P **Algorithms and Architectures for Parallel Processing** Jaideep Vaidya, Jin Li, 2018-12-07 The four volume set LNCS 11334 11337 constitutes the proceedings of the 18th International Conference on Algorithms and Architectures for Parallel Processing ICA3PP 2018 held in Guangzhou China in

November 2018 The 141 full and 50 short papers presented were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on Distributed and Parallel Computing High Performance Computing Big Data and Information Processing Internet of Things and Cloud Computing and Security and Privacy in Computing

Innovations in Bio-Inspired Computing and Applications Václav Snášel,Ajit Abraham,Pavel Krömer,Millie Pant,Azah Kamilah Muda,2015-12-14 This Volume contains the papers presented during the 6th International Conference on Innovations in Bio Inspired Computing and Applications IBICA 2015 which was held in Kochi India during December 16 18 2015 The 51 papers presented in this Volume were carefully reviewed and selected The 6th International Conference IBICA 2015 has been organized to discuss the state of the art as well as to address various issues in the growing research field of Bio inspired Computing which is currently one of the most exciting research areas and is continuously demonstrating exceptional strength in solving complex real life problems The Volume will be a valuable reference to researchers students and practitioners in the computational intelligence field

Recent Advances in Civil Space Remote Sensing Harold W. Yates,1984

Kwic Index of International Standards International Organization for Standardization,International Electrotechnical Commission,1991

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