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# Efficient Query Processing In Geographic Information Systems

**efficient query processing in geographic web search engines** - engines. geographic search engine query processing is different in that it requires a combination of text and spatial data processing techniques. we propose several algorithms for efficient query processing in geographic search engines, integrate them into an existing web search query processor, and evaluate them on large sets

**efficient query processing for data integration** - chapter 3: query processing for data integration 25 ... the query plan is then executed, fetching data from source relations and combining it according to the operators to produce results. system-r established a standard approach to query processing that is still followed today. this approach is very similar to compilation and execution of ...

**code generation for efficient query processing in managed ...** - code generation for efficient query processing in managed runtimes fabian nagel university of edinburgh f.ogel@sms.ed gavin bierman oracle labs gavinerman@oracle stratis d. viglas university of edinburgh sviglas@inf.ed abstract in this paper we examine opportunities arising from the conver-

**shrinkwrap: efficient sql query processing in ...** - query processing. shrinkwrap uses computational differential privacy to minimize the padding of intermediate query results, achieving up to a 35x performance improvement over oblivious query processing. when the query needs differentially private output, shrinkwrap provides a trade-off between result accuracy and query evaluation performance.

**efficient query processing on unstructured tetrahedral meshes** - that can efficiently query large-scale meshes stored in a data-base system along with implementation simplicity and easy integration with existing dbms. the detailed contributions of this paper are: 1. this is the first paper to treat query processing on tetrahedral mesh data, a crucial problem for large scale

**efficient processing of xpath queries using indexes** - propose new indexing techniques for xml data, but to design algorithms for efficient processing of xpath queries using simple indexes and compare them with some existing xpath processing techniques using indexes. in the epa, we find an entry-point node in the xpath expression that can be used to split the xpath expression.

**efficient query processing on spatial networks** - efficient query processing on spatial networks jagan sankaranarayanan, houman alborzi, and hanan samet center for automation research, institute for advanced computer studies department of computer science university of maryland, college park, md 20742 fjagan,houman,hjsg@cs.umd abstract a framework for determining the shortest path and the ...

**efficient spatial query processing for big data** - efficient spatial query processing for big data kisung lee y, raghu k. ganti {, mudhakar srivatsa {, ling liu y college of computing, georgia institute of technology, atlanta, ga usa {ibm t. j. watson research center, yorktown heights, ny usakslee@gatech, {rganti, msrivats}@us.ibm, lingliu@cctech abstract spatial queries are widely used in many data mining and

**on efficient query processing of stream counts on the cell ...** - on efficient query processing of stream counts on the cell processor dina thomas #1, rajesh bordawekar #2, charu c. aggarwal #2, philip s. yu #3 #1stanford university palo alto, ca, usa 1dinathomas@gmail #2ibm t. j. watson research center hawthorne, ny, usa 1{ bordaw, charu }@us.ibm #3university of illinois at chicago chicago, il, usa 2 psyu@cs.uic ...

**three-level caching for efficient query processing in large ...** - three-level caching for efficient query processing in large web search engines xiaohui long cis department polytechnic university brooklyn, ny 11201 xlong@cis.poly torsten suel cis department polytechnic university brooklyn, ny 11201 suel@poly abstract large web search engines have to answer thousands of queries per

**safeq: secure and efficient query processing in sensor ...** - query, it finds the smallest set of bucket ids that contains the range in the query, then sends the set as the query to storage nodes. upon receiving the bucket ids, the storage node returns the corresponding encrypted data in all those buckets. the sink can then decrypt the encrypted buckets and verify the integrity using encoding numbers.

**efficient skyline query processing on peer-to-peer networks** - tively based on query accessing patterns, we are able to alleviate the problem of "hot" spots present in the sky-line query processing. by being able to estimate the peer nodes within the query subspaces, we are able to control the amount of query forwarding, limiting the number of peers involved and the amount of message transmitted in the network.

**efficient probabilistic reverse nearest neighbor query ...** - efficient probabilistic reverse nearest neighbor query processing on uncertain data thomas bernecker, tobias emrich, hans-peter kriegel matthias renz, stefan zankl, andreas züfle" department of computer science, ludwig-maximilians-universitat m" unchen" fbernecker,emrich,kriegel,renz,zankl,zuefleg@dbs.ifi.lmu abstract

**efficient query processing on relational data-partitioning ...** - efficient query processing on relational data-partitioning index structures hans-peter kriegel, peter kunath, martin pfeifle, matthias renz university of munich, germany, {kriegel, kunath, pfeifle, renz}@dbsformatik.uni-muenchen

**data processing at scale (cse 511) - asuonlineu** - database systems are used to provide convenient access to disk-resident data through efficient query processing, indexing structures, concurrency control, and recovery. this course delves into new frameworks for processing and generating large-scale datasets with parallel and

**an efficient architecture for query processing in mobile ...** - an efficient architecture for query processing in mobile environment t.pdamuthu and dr.plasubramanie maharaja engineering college, anna university, tamilnadu, india summary the downstream

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communication ability from servers to clients is much better than the upstream communication ability from

**efficient processing of data warehousing queries in a split ...** - importance of the different techniques in a split query execution environment where both relational database systems and mapreduce are responsible for query processing. furthermore, many commercial parallel dbms vendors do not publish their query execution techniques in the research community. therefore, while not necessarily new **efficient query processing on modern hardware** - efficient query processing on modern hardware . thomas neumann. lehrstuhl für informatik iii: datenbanksysteme fakultät für informatik technische universität münchen . abstract . most database systems translate a given query into an expression in a (physical) algebra, and then start evaluating this algebraic expression to produce the query ... **efficient exploitation of similar subexpressions for query ...** - efficient exploitation of similar subexpressions for query processing jingren zhou microsoft research jrzhou@microsoft per-ake larson microsoft research **query processing - knowledge articles** - query optimization activity of choosing an efficient execution strategy for processing query.  $\emptyset$  as there are many equivalent transformations of same high-level query, aim of  $q_0$  is to choose one that minimizes resource usage.  $\emptyset$  generally, reduce total execution time of query.  $\emptyset$  may also reduce response time of query. **a distributed energy efficient query processing in self ...** - a distributed energy efficient query processing in self-organized wireless sensor networks abstract—spatial query execution is an essential functionality of a sensor network. redundancy within a sensor network can be **introduction to query processing and optimization** - efficient query processing in domains such as the web, multimedia search, and distributed systems has shown a great impact on performance. this paper will introduce the basic concepts of query processing and query optimization in the relational database. we also describe and difference query processing techniques in relational databases. **esqp: an efficient sql query processing for cloud data ...** - esqp: an efficient sql query processing for cloud data management jing zhao, xiangmei hu and xiaofeng meng school of information, renmin university of china beijing, china, 100872 {zhaoj, hxm2008, xfmeng}@ruc abstract recently, the cloud computing platform is getting more and more attentions as a new trend of data management. cur- **the collective index: a technique for efficient processing ...** - the collective index: a technique for efficient processing of progressive queries qiang zhu1,\*,brahim medjahed1,anshuman sharma1 and henry huang2 1department of computer and information science the university of michigan, dearborn, mi 48128, usa 2research and advanced engineering ford motor company, dearborn, mi 48121, usa \*corresponding author: qzhu@umich **query optimization issues for data retrieval in cloud ...** - proposes the efficient available query optimization techniques for efficient retrieval of data to satisfy the customer needs. keywords: cloud computing, storage, cloud service provider, query optimization. introduction the industrial information technology towards a subscription based or pay-per-use service business model known as cloud ... **efficient temporal shortest path queries on evolving ...** - in data storage and brings more challenges in query processing. plenty of research work has studied efficient shortest-path querying of large road network graph data. to improve query times, several preprocessing indexes have been proposed; a survey of route planning is provided by [3]. nearly all of these **topx: efficient and versatile top-k query processing for ...** - topx : top-k query processing for semistructured data 83fig. 1 topx components corpus statistics thesaurus with concepts, relations, statistics, etc. thesa us with index list metadata (e.(e. gg., histograms)rams) **query processing performance and searching over encrypted ...** - security and efficient query processing. the work of this paper tries to fill this gap. it allows the users to query over the encrypted column directly without decrypting all the records. it's improves the performance of the system. the proposed algorithm works well in the case of range and fuzzy match queries. **towards an efficient top-k trajectory similarity query ...** - reduce the size of the candidate set generated while processing these queries, and in doing so strives to address these computational challenges. the experiments show that the state of the art top-k trajectory similarity query processing algorithm on gpgpus, tksimgpu, achieves a 6.44x speedup in query **8. query processing - computer science- uc davis** - measures of query cost selection join operations other operations evaluation and transformation of expressions query processing & optimization task: find an efficient physical query plan (aka execution plan) for an sql query goal: minimize the evaluation time for the query, i.e., compute query result as fast as possible **efficient storage scheme and query processing for supply ...** - efficient storage scheme and query processing for supply chain management using rfid chun-hee lee div. of computer science korea advanced institute of science and technology (kaist), daejeon, korea leechun@islab.kaist chin-wan chung div. of computer science korea advanced institute of science and technology (kaist), daejeon, korea **efficiency :index pruning & query thresholding** - efficient query processing via partial processing •improving query run-time by partial result set retrieval •may or may not need modification to inverted index -process least frequent terms first -process least frequent terms only (query thresholds) **sequence query processing - brandeis** - quences of data, we motivate the importance of sequence query processing, and present aframework for the optimization of sequence queries based on several novel techniques. these include query transformations, optimizations that utilize meta-data, and caching of intermediate results. we present a bottom-up algorithm that generates an efficient **towards efficient query processing on massive time-evolving ...** - towards efficient query processing on massive time-evolving graphs arash fard amir abdolrashidi

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lakshmi ramaswamy john a. miller department of computer science the university of georgia athens ...

**efficient information retrieval using indexing** - more compact indexes, wah supports efficient query processing. this combined with the fact that fastbit is openly available motivates the use of wah-compressed bitmap indexes. in ir, inverted indexes consist of a search structure for all searchable words called a dictionary, and lists of **brinkhoff hans-peter kriegel bernhard seeger - ucr** - query "for all cities not further away than 100 km from munich, find all forests which are in a city". an efficient processing of the window query is important for the efficiency of the spatial join. in the following, we restrict our considerations to r-trees [10], particularly r\*-trees [2], used as the underlying spatial access method **efficient processing of spatial range queries on wireless ...** - 10-11]. in order to support Idqs, efficient processing of location dependent queries (Idqs), which retrieve information based on the current location of mobile clients (mcs), is critical. one of the essential classes of Idqs is the range query which finds out all data objects within a given rectangular (or circular) region. **designing distributed database systems for efficient operation** - allocation. much of this work ignored the effects of update and the system load and, perhaps, to pre-compile query execution concurrency control mechanisms. globally optimized query processing strategies may, in fact, be more efficient than one-at-a-time query optimizers. we combine both data allocation and operation allocation in a **query processing notes - university of california, san diego** - query processing notes cse232 query processing • the query processor turns user queries and data modification commands into a query plan - a sequence of operations (or algorithm) on the database - from high level queries to low level commands • decisions taken by the query processor - which of the algebraically equivalent forms of a **efficient processing of spatial group keyword queries** - efficient processing of spatial group keyword queries a:3 highly. the text relevance of an object to the query can be computed using any information retrieval model, such as the language model [zhai and lafferty 2004]. we study the weighted variant of all the three instantiations of the spatial group keyword query. **cse 511 data processing at scale cse 575 statistical ...** - cse 511 data processing at scale database systems are used to provide convenient access to disk-resident data through efficient query processing, indexing structures, concurrency control, and recovery. this course delves into new frameworks for processing and generating large-scale datasets with parallel and distributed **efficient processing of ad-hoc top-k aggregate queries in olap** - efficient processing of ad-hoc top-k aggregate queries in olap chengkai li1 kevin chen-chuan chang1 ihab f. ilyas2 1department of computer science, university of illinois at urbana-champaign cli@uiuc, kcchang@cs.uiuc ... query processing, with respect to our cost metric, can be **blas : an efficient xpath processing system** - query processing. 3. section 4.1: three query translation algorithms, split, push-up and unfold, are proposed to generate efficient sql query plan from the input xpath queries. 4. section 5: experimental results on a variety of queries and data sets based on rdbms and holistic twig join techniques proteindatabase proteintentry year "2001 ...

**programming1 - cs.utexas** - erate efficient query processing programs automatically and explain that the road that they followed so successfully is the same road that the gp, dsl, and ap communities are now traversing. i cite lessons that should be learned and chart a road-map that others **cubecache: efficient and scalable processing of olap ...** - cubecache: efficient and scalable processing of olap aggregation queries in a peer-to-peer network sangeetha seshadri†, brian fopert†, ling liu† †college of computing georgia institute of technology **efficient spatial query processing in geographic database ...** - efficient spatial query processing in geographic database systems hans-peter kriegel, thomas brinkhoff, ralf schneider institute for computer science, university of munich leopoldstr. 11 b, w-8000 münchen 40, germany e-mail: {kriegel,brink,ralf}@dbsformatik.uni-muenchen 1introduction **efficient continuously moving top-k spatial keyword query ...** - efficient continuously moving top-k spatialkeyword query processing dingming wu1 man lung yiu2 christian s. jensen3 gao cong4 1department of computer science, aalborg university, denmark, dingming@cs.aau 2department of computing, hong kong polytechnic university, hong kong, csmlyiu@comp.polyu 3department of computer science, aarhus university, denmark, csj@cs

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