Document details

‹ Back to results | ‹ Previous 3 of 3

Export Download Print E-mail Save to PDF Add to List More... ›

View at Publisher

Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)
Volume 9828 LNCS, 2016, Pages 377-388
27th International Conference on Database and Expert Systems Applications, DEXA 2016; Porto; Portugal; 5 September 2016 through 8 September 2016; Code 179459

Computing range skyline query on uncertain dimension (Conference Paper)

Saad, N.H.M.[a], Ibrahim, H.[a], Sidi, F.[a], Yaakob, R.[a], Alwan, A.A.[b]

[a]Faculty of Computer Science and Information Technology, Universiti Putra Malaysia, Serdang, Malaysia
[b]Kulliyyah of Information and Communication Technilogy, International Islamic University Malaysia, Kuala Lumpur, Malaysia

Abstract

View references (15)

A user sometimes prefers to not be restricted when querying for information. Querying information within a range of search often provides a different perspective to user as opposed to a rigid search. To compute skyline within a given range would be easy on traditional dataset. The challenge is when the dataset being queried consists of both atomic values as well as continuous range of values. For a set of objects with uncertain dimension , a skyline with a range query $[q_j: q'_j]$ on that uncertain dimension returns objects which are not dominated by any other objects in the range query . A method is proposed to determine objects and answer skyline query that satisfy the range query . The correctness of the method is proven through comparisons between two naïve methods that strictly reject and loosely accept objects that intersect with the range query . © Springer International Publishing Switzerland 2016.

SciVal Topic Prominence

Topic: Skyline | Top-K | Query Processing

Prominence percentile: 87.910

Author keywords

Probabilistic skyline | Range query | Uncertain dimension

Indexed keywords

Engineering controlled terms: Expert systems

Engineering uncontrolled terms: Atomic values | Probabilistic skyline | Range query | Skyline query | Uncertain dimension

Engineering main heading: Query processing

ISSN: 03029743
ISBN: 978-331944405-5
Source Type: Book Series
Original language: English
DOI: 10.1007/978-3-319-44406-2_31
Document Type: Conference Paper
Volume Editors: Hartmann S.,Ma H.
Sponsors:
Publisher: Springer Verlag

References (15)

View in search results format >

All | Export | Print | E-mail | Save to PDF | Create bibliography

1 Börzsönyi, S., Kossmann, D., Stocker, K.
The skyline operator

(2001) *Proceedings - International Conference on Data Engineering*, pp. 421-430. Cited 1784 times.

2 Chomicki, J., Godfrey, P., Gryz, J., Liang, D.
Skyline with presorting

(2003) *Proceedings - International Conference on Data Engineering*, pp. 717-719. Cited 626 times.
doi: 10.1109/ICDE.2003.1260846

View at Publisher

3 Godfrey, P., Shipley, R., Gryz, J.
Maximal vector computation in large data sets

(2005) *VLDB 2005 - Proceedings of 31st International Conference on Very Large Data Bases*, 1, pp. 229-240. Cited 313 times.
ISBN: 1595931546; 978-159593154-2

4 Jiang, B., Pei, J.
Online interval skyline queries on time series

(2009) *Proceedings - International Conference on Data Engineering*, art. no. 4812475, pp. 1036-1047. Cited 37 times.
ISBN: 978-076953545-6
doi: 10.1109/ICDE.2009.70

View at Publisher

5 Khalefa, M.E., Mokbel, M.F., Levandoski, J.J.
Skyline query processing for uncertain data

(2010) *International Conference on Information and Knowledge Management, Proceedings*, pp. 1293-1296. Cited 27 times.
ISBN: 978-145030099-5
doi: 10.1145/1871437.1871604

View at Publisher

6 Kossmann, D., Ramsak, F., Rost, S.
Shooting stars in the sky: An online algorithm for skyline queries
(2002) *Proceedings of International Conference on Very Large Data Bases (VLDB 2002)*, pp. 275-286. Cited 691 times.
Hong Kong, China

(2016) Journal of Telecommunication, Electronic and Computer Engineering

A framework for evaluating skyline query over uncertain autonomous databases

Saad, N.H.M. , Ibrahim, H. , Alwan, A.A.
(2014) Procedia Computer Science

Skyline query processing on heterogeneous data a conceptual model

Saad, N.H.M. , Ibrahim, H. , Sidi, F.
(2012) DATA 2012 - Proceedings of the International Conference on Data Technologies and Applications

View all related documents based on references

Find more related documents in Scopus based on:

Authors > Keywords >

7 Lian, X., Chen, L.
Monochromatic and bichromatlc reverse skyline search over uncertain databases

(2008) *Proceedings of the ACM SIGMOD International Conference on Management of Data*, art. no. 1376641, pp. 213-226. Cited 169 times.
ISBN: 978-160558102-6
doi: 10.1145/1376616.1376641

View at Publisher

8 Papadias, D., Tao, Y., Fu, G., Seeger, B.
Progressive skyline computation in database systems

(2005) *ACM Transactions on Database Systems*, 30 (1), pp. 41-82. Cited 678 times.
doi: 10.1145/1061318.1061320

View at Publisher

9 Pei, J., Jiang, B., Lin, X., Yuan, Y.
Probabilistic skylines on uncertain data

(2007) *33rd International Conference on Very Large Data Bases, VLDB 2007 - Conference Proceedings*, pp. 15-26. Cited 404 times.
ISBN: 978-159593649-3

10 Qi, Y., Atallah, M.
Identifying interesting instances for probabilistic skylines

(2010) *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 6262 LNCS (PART 2), pp. 300-314. Cited 5 times.
ISBN: 3642152503; 978-364215250-4
doi: 10.1007/978-3-642-15251-1_25

View at Publisher

11 Rahul, S., Janardan, R.
Algorithms for range-skyline queries

(2012) *GIS: Proceedings of the ACM International Symposium on Advances in Geographic Information Systems*, pp. 526-529. Cited 15 times.
ISBN: 978-145031691-0
doi: 10.1145/2424321.2424406

View at Publisher

12 Saad, N.H.M., Ibrahim, H., Alwan, A.A., Sidi, F., Yaakob, R.
A framework for evaluating skyline query over uncertain autonomous databases
(Open Access)

(2014) *Procedia Computer Science*, 29, pp. 1546-1556. Cited 5 times.
http://www.sciencedirect.com.ezproxy.um.edu.my/science/journal/18770509
doi: 10.1016/j.procs.2014.05.140

View at Publisher

13 Wang, W.-C., Wang, E.T., Chen, A.L.P.
Dynamic skylines considering range queries

(2011) *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 6588 LNCS (PART 2), pp. 235-250. Cited 10 times.
ISBN: 978-364220151-6
doi: 10.1007/978-3-642-20152-3_18

View at Publisher

14 Zhang, W., Lin, X., Zhang, Y., Wang, W., Yu, J.X.
Probabilistic skyline operator over sliding windows

(2009) *Proceedings - International Conference on Data Engineering*, art. no. 4812477, pp. 1060-1071. Cited 102 times.
ISBN: 978-076953545-6
doi: 10.1109/ICDE.2009.83

View at Publisher

15 Weisstein, E.W.
Continuity Correction, MathWorld–A Wolfram Web Resource. Cited 1047 times.
http://mathworld.wolfram.com/ContinuityCorrection.html

Saad, N.H.M.; Faculty of Computer Science and Information Technology, Universiti Putra Malaysia, Serdang, Malaysia; email:nhusna.saad@gmail.com