

# *Kyriakos Mouratidis*

Curriculum Vitae  
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## **Personal Information**

First Name: Kyriakos  
Surname: Mouratidis  
Gender: Male  
Nationality: Greek  
Date of Birth: August 21, 1980

## **Current Position**

Assistant Professor  
School of Information Systems  
Singapore Management University

## **Education**

Ph.D. in Computer Science (2002-2006)  
Department of Computer Science  
Hong Kong University of Science and Technology

4-year B.Sc. in Computer Science (1998-2002)  
Department of Computer Science  
Aristotle University of Thessaloniki, Greece  
First Class Honours (GPA: 9.14 / 10)

## **Research Interests**

Spatial and Spatiotemporal Databases, Mobile Computing, Preference-based Queries, Outsourced Database Authentication.

## **Journal Articles**

1. Papadias, D., Tao, Y., Mouratidis, K., Hui, K. Aggregate Nearest Neighbor Queries in Spatial Databases. *ACM Transactions on Database Systems (TODS)*, 30(2), 529-576, 2005.
2. Mouratidis, K., Papadias, D., Bakiras, S., Tao, Y. A Threshold-based Algorithm for Continuous Monitoring of  $k$  Nearest Neighbors. *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, 17(11), 1451-1464, 2005.
3. Zhang, J., Papadias, D., Mouratidis, K., Zhu, M. Query Processing in Spatial Databases Containing Obstacles. *International Journal of Geographic Information Science (IJGIS)*, 19(10), 1091-1111, 2005.
4. Mouratidis, K., Papadias, D. Continuous Nearest Neighbor Queries over Sliding Windows. *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, 19(6), 789-803, 2007.
5. Kalnis, P., Ghinita, G., Mouratidis, K., Papadias, D. Preserving Location-based

Identity Inference in Anonymous Spatial Queries. *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, 19(12), 1719-1733, 2007.

6. Mouratidis, K., Papadias, D., Papadimitriou S. Tree-based Partition Querying: A Methodology for Computing Medoids in Large Spatial Datasets. *Very Large Data Bases Journal (VLDBJ)*, 17(4), 923-945, 2008.

7. Mouratidis, K., Sacharidis, D., Pang, H. Partially Materialized Digest Scheme: An Efficient Verification Method for Outsourced Databases. *Very Large Data Bases Journal (VLDBJ)*, 18(1), 363-381, 2009.

8. Mouratidis, K., Bakiras, S., Papadias, D. Continuous Monitoring of Spatial Queries in Wireless Broadcast Environments. *IEEE Transactions on Mobile Computing (TMC)*, 8(10), 1297-1311, 2009.

9. Mouratidis, K., Yiu, M. Anonymous Query Processing in Road Networks. *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, 22(1), 2-15, 2010.

10. Sacharidis, D., Mouratidis, K., Papadias, D.  $k$ -Anonymity in the Presence of External Databases. *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, 22(3), 392-403, 2010.

11. U, L., Mouratidis, K., Mamoulis, N. Continuous Spatial Assignment of Moving Users. *Very Large Data Bases Journal (VLDBJ)*, 19(2), 141-160, 2010.

12. U, L., Mouratidis, K., Yiu, M., Mamoulis, N. Optimal Matching between Spatial Datasets under Capacity Constraints. *ACM Transactions on Database Systems (TODS)*, 35(2), 2010.

13. Mouratidis, K., Pang, H. Efficient Evaluation of Continuous Text Search Queries. *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, 23(10), 1469-1482, 2011.

## Conference Publications

1. Papadias, D., Shen, Q., Tao, Y., Mouratidis, K. Group Nearest Neighbor Queries. Proceedings of the *IEEE International Conference on Data Engineering (ICDE)*, pp. 301-312, 2004 (acceptance rate: 1/7).

2. Zhang, J., Papadias, D., Mouratidis, K., Zhu, M. Spatial Queries in the Presence of Obstacles. Proceedings of the *International Conference on Extending Database Technology (EDBT)*, pp. 366-384, 2004 (acceptance rate: 1/7).

3. Mouratidis, K., Hadjieleftheriou, M., Papadias, D. Conceptual Partitioning: An Efficient Method for Continuous Nearest Neighbor Monitoring. Proceedings of the *ACM Conference on Management of Data (SIGMOD)*, pp. 634-645, 2005 (acceptance rate: 1/7).

4. Mouratidis, K., Papadias, D., Papadimitriou, S. Medoid Queries in Large Spatial Databases. Proceedings of the *International Symposium on Spatial and Temporal Databases (SSTD)*, pp. 55-72, Springer Verlag, LNCS, 2005 (acceptance rate: 2/7).

5. Terrovitis, M., Bakiras, S., Papadias, D., Mouratidis, K. Constrained Shortest Path Computation. Proceedings of the *International Symposium on Spatial and Temporal Databases (SSTD)*, pp. 181-199, Springer Verlag, LNCS, 2005 (acceptance rate: 2/7).

6. Mouratidis, K., Bakiras, S., Papadias, D. Continuous Monitoring of Top- $k$  Queries over Sliding Windows. Proceedings of the *ACM Conference on Management of Data (SIGMOD)*, pp. 635-646, 2006 (acceptance rate: 1/8).

7. Mouratidis, K., Yiu, M., Papadias, D., Mamoulis, N. Continuous Nearest Neighbor Monitoring in Road Networks. Proceedings of the *Very Large Data Bases Conference (VLDB)*, pp. 43-54, 2006 (acceptance rate: 1/7).
8. Papadopoulos, S., Sacharidis, D., Mouratidis, K. Continuous Medoid Queries over Moving Objects. Proceedings of the *International Symposium on Spatial and Temporal Databases (SSTD)*, pp. 38-56, 2007 (acceptance rate: 1/3).
9. Sacharidis, D., Patroumpas, K., Terrovitis, M., Kantere, V., Potamias, M., Mouratidis, K., Sellis, T. On-Line Discovery of Hot Motion Paths. Proceedings of the *International Conference on Extending Database Technology (EDBT)*, pp. 392-403, 2008 (acceptance rate: 1/6).
10. U, L., Yiu, M., Mouratidis, K., Mamoulis, N. Capacity Constrained Assignment in Spatial Databases. Proceedings of the *ACM Conference on Management of Data (SIGMOD)*, pp. 15-28, 2008 (acceptance rate: 1/6).
11. Pang, H., Mouratidis, K. Authenticating the Query Results of Text Search Engines. Proceedings of the *Very Large Data Bases Conference (VLDB)*, pp. 126-137, 2008 (acceptance rate: 1/6).
12. Mouratidis, K., Pang, H. An Incremental Threshold Method for Continuous Text Search Queries. Proceedings of the *IEEE International Conference on Data Engineering (ICDE)*, pp. 1187-1190, 2009 (short paper, acceptance rate: 1/4).
13. U, L., Mamoulis, N., Mouratidis, K. Efficient Evaluation of Multiple Preference Queries. Proceedings of the *IEEE International Conference on Data Engineering (ICDE)*, pp. 1251-1254, 2009 (short paper, acceptance rate: 1/4).
14. Tan, K., Lin, Y., Mouratidis, K. Spatial Cloaking Revisited: Distinguishing Information Leakage from Anonymity. Proceedings of the *International Symposium on Spatial and Temporal Databases (SSTD)*, pp. 117-134, 2009 (acceptance rate: 1/3).
15. Pang, H., Zhang, J., Mouratidis, K. Scalable Verification for Outsourced Dynamic Databases. Proceedings of the *Very Large Data Bases Conference (VLDB)*, pp. 802-813, 2009 (acceptance rate: 1/6).
16. U, L., Mamoulis, N., Mouratidis, K. A Fair Assignment Algorithm for Multiple Preference Queries. Proceedings of the *Very Large Data Bases Conference (VLDB)*, pp. 1054-1065, 2009 (acceptance rate: 1/7).
17. Yiu, M, Lin, Y., Mouratidis, K. Efficient Verification of Shortest Path Search via Authenticated Hints. Proceedings of the *IEEE International Conference on Data Engineering (ICDE)*, pp. 237-248 (full paper), 2010 (acceptance rate: 1/8).
18. Mouratidis, K., Lin, Y., Yiu, M. Preference Queries in Large Multi-Cost Transportation Networks. Proceedings of the *IEEE International Conference on Data Engineering (ICDE)*, pp. 533-544 (full paper), 2010 (acceptance rate: 1/8).
19. Kellaris, G., Mouratidis, K. Shortest Path Computation on Air Indexes. Proceedings of the *Very Large Data Bases Conference (VLDB)*, pp. 747-757, 2010 (acceptance rate: 1/6).
20. Zhang, J., Mouratidis, K., Pang, H. Heuristic Algorithms for Balanced Multi-way Number Partitioning. Proceeding of the *International Joint Conference on Artificial Intelligence (IJCAI)*, pp. 693-698 (full paper, full presentation), 2011 (acceptance

rate: 1/6).

**Teaching Experience**

Course Instructor, Singapore Management University, May 2006 - present:  
IS 202 - Data Management  
IS 410 - Advanced Data Management

Teaching Assistant, Hong Kong University of Science and Technology, September 2002 - June 2004.

**Work Experience**

Research Assistant, Hong Kong University of Science and Technology, July 2004 - March 2006.

Part-time Staff, Network Operation Centre of the Aristotle University, October 2000 - January 2002.

Responsibilities: Router Maintenance and Configuration.

**Awards**

Long Service Award, SMU, 2011.

Nominated for Most Promising Teacher Award, SMU Teaching Excellence Awards, 2009.

Fellowship for Research Excellence, Lee Foundation, Singapore, 2007.

Postgraduate Studentship, Hong Kong University of Science and Technology, 2002 - 2006.

Scholarship for attending the 2002 Lecture Series in Computer Science, *The Data Avalanche: Reducing Information Overload*, Onassis Foundation, Greece, 2002.

Scholarship for Academic Excellence (ranked 1<sup>st</sup> in class in 4<sup>th</sup> year of undergraduate study), State Scholarship's Foundation, Greece, 2002.

Scholarship for Academic Excellence (ranked 1<sup>st</sup> in class in 3<sup>rd</sup> year of undergraduate study), State Scholarship's Foundation, Greece, 2001.

**Languages**

Greek (Native), English (Fluent), French (Basic).