



Distributed and Network Algorithms lab Seminar Series

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Geometric Aspects of Top-k Processing

November 2, 2021
12:00 – 13:00 p.m. (Greece)

The talk will start with a brief introduction to the general (and widely used) top-k query, followed by observations that reveal its geometric nature. Based on the geometric aspects of the problem, we will then describe novel, auxiliary operators that complement its applications. These operators present ample computational challenges, especially for large datasets. The talk will be based on recent studies by Prof. Mouratidis, published in the ACM SIGMOD and VLDB conferences. A complete CV of the speaker, as well as full versions of the papers included in the talk, can be found at <http://www.mysmu.edu/faculty/kyriakos/>.

Prof. Mouratidis received his BSc in Computer Science from AUTH in 2002, and his Ph.D. in Computer Science and Engineering from HKUST in 2006. Since 2006 he has been with the School of Computing and Information Systems (SCIS) at Singapore Management University (SMU), where he serves as an Associate Professor of Computer Science. His research falls in the area of spatial databases and preference-based queries.

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