

Vassilis Papadimos

- CONTACT INFORMATION** Department of Computer Science
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- RESEARCH INTERESTS** Alternative strategies for distributed query processing and optimization, resource discovery and query routing in P2P systems, querying XML data.
- EDUCATION**
- Portland State University**, Portland, Oregon
Department of Computer Science
- Ph.D. student, 2005 – present
Dissertation Topic: “Mutant Query Plans”
Advisor: David Maier
- Oregon Health & Science University**, Portland, Oregon
Department of Computer Science & Engineering
- MS. in Comp. Science & Engineering, December 2004
Advisor: David Maier
- National Technical University of Athens**, Athens, Greece
Department of Electrical and Computer Engineering
- Dipl. Eng., July 1998
Advisor: Timos Sellis
- PUBLICATIONS**
- Vassilis Papadimos, David Maier, and Kristin Tufte. Distributed Query Processing and Catalogs for Peer-to-Peer Systems. Presented in *CIDR 2003*.
- Vassilis Papadimos and David Maier. Distributed Queries without Distributed State. Presented in *WebDB 2002*.
- Vassilis Papadimos and David Maier. Mutant Query Plans. *Information and Software Technology*, 44(4):197-206, April 2002.
- Kristin Tufte, Jin Li, David Maier, Vassilis Papadimos, Robert L. Bertini, James Rucker: Travel time estimation using NiagaraST and latte. Demo in SIGMOD 2007.
- David Maier, Jin Li, Peter A. Tucker, Kristin Tufte, Vassilis Papadimos. Semantics of Data Streams and Operators. ICDT 2005.
- Jin Li, David Maier, Kristin Tufte, Vassilis Papadimos, Peter A. Tucker. Semantics and Evaluation Techniques for Window Aggregates in Data Streams. SIGMOD 2005.
- Jin Li, David Maier, Kristin Tufte, Vassilis Papadimos, Peter A. Tucker. No pane, no gain: efficient evaluation of sliding-window aggregates over data streams. SIGMOD Record 34(1): 39-44 (2005).
- WORK EXPERIENCE** **BEA Systems**, San Jose, CA
Intern, Summer 2003

I worked on a implementation of XQuery update on BEA's XQRL platform, that treated updates as efficient transformations of XML messages streaming through the query engine. I have also worked on an implementation on top of XMLBeans, BEA's open-source Java-XML binding.

Portland State University, Portland, Oregon
Research assistant, 2005 – present

and previously at **Oregon Health & Science University**, Portland, Oregon
Research assistant, 1999 – 2004

I am working on the Niagara project, an XML query engine that supports stream processing and distributed querying. I implemented an alternative, coordinator-less, strategy for distributed query processing using mutant query plans. I wrote Colombia, a Java version of the Columbia top-down query optimizer and incorporated it in the Niagara framework. I have also worked on reducing the memory footprint and parsing overhead of XML documents with a memory-efficient, paged implementation of DOM based on arrays of SAX events.

National Technical University of Athens, Athens, Greece
Systems and network administrator, 1996 – 1999

I worked in the Computer Center of the department, managing the departmental web server, parts of its network infrastructure, and a collection of UNIX workstations. I also did implementation and support work for various research projects on databases and network management.

REFERENCES

Available upon request.