

M. Tamer Özsu

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- PERSONAL DATA**
- ◇ **Birth place and date:** Turkey, 18 March 1951
 - ◇ **Citizenship:** Dual Canadian & Turkish
 - ◇ **Marital status:** Married, one son, one grandson
- EDUCATION**
- ◇ **The Ohio State University**, Columbus, Ohio, USA
Ph.D., Computer and Information Science, 1983
 - ◇ **The Ohio State University**, Columbus, Ohio, USA
M.S., Computer and Information Science, 1981
 - ◇ **Middle East Technical University**, Ankara, Turkey
M.Sc., Industrial Engineering, 1978
 - ◇ **Middle East Technical University**, Ankara, Turkey
B.Sc., Industrial Engineering, 1974
- AWARDS & HONOURS**
- ◇ Fellow, American Association for the Advancement of Science (AAAS), 2017
 - ◇ Fellow, Royal Society of Canada, 2016
 - ◇ Elected Member, The Science Academy, Turkey, 2013
 - ◇ Fellow, Association for Computing Machinery (ACM), 2006
 - ◇ Fellow, Institute of Electrical and Electronics Engineers (IEEE), 2011
 - ◇ ACM Distinguished Lecturer, 2007–present
 - ◇ IBM CAS Canada Research Faculty Fellow, 2010–present
 - ◇ University of Waterloo Cheriton Faculty Fellow, 2013–2016
 - ◇ University of Waterloo University Research Chair, 2004–2011
 - ◇ University of Waterloo Outstanding Performance Award, 2004, 2009, 2014
 - ◇ Natural Sciences and Engineering Research Council (NSERC) of Canada Accelerator Award for Exceptional Opportunity, 2013
 - ◇ Ohio State University College of Engineering Distinguished Alumnus Award, 2008
 - ◇ ACM SIGMOD (Special Interest Group on Management of Data) Contributions Award, 2006
 - ◇ Faculty of Mathematics Fellow, University of Waterloo, 2000–2003
 - ◇ McCalla Professor, University of Alberta, 1993–1994
 - ◇ Sigma Xi – Scientific Research Society Member
 - ◇ NATO Ph.D. scholarship, through TÜBİTAK – The Scientific and Technical Research Council of Turkey, 1979–1983

- PUBLICATION AWARDS
- ◇ ACM SIGMOD Test-of-Time Award 2015 that recognizes "the best paper from the SIGMOD proceedings 10 years prior, based on the criterion of identifying the paper that has had the most impact (research, products, methodology) over the intervening decade" for paper
 - L. Chen, M. T. Özsu, and V. Oria. "Robust and Fast Similarity Search for Moving Object Trajectories," In *Proc. ACM SIGMOD International Conference on Management of Data*, 2005, pages 491–502.
 - ◇ Best Paper Award Honorable Mention (one of the three best papers at the conference), 29th International Conference on Data Engineering, 2013 for paper
 - C. Balkesen, J. Teubner, G. Alonso, and M. T. Özsu. "Main-Memory Hash Joins on Multi-Core CPUs: Tuning to the Underlying Hardware," In *Proc. 29th IEEE International Conference on Data Engineering*, 2013, pages 362–373.
- PROFESSIONAL ASSOCIATIONS
- ACM – Association for Computing Machinery (Fellow)
 - IEEE – Institute of Electrical and Electronic Engineers (Fellow)
 - AAAS – American Association for the Advancement of Science (Fellow)
- RESEARCH INTERESTS
- My research is on data management with two foci:
- ◇ **Application of database technology to non-traditional data types**
Data types I have studied include multimedia data, temporal data, time series data, spatial data, XML, streaming data, graph data, RDF data (the last two are the ones that I currently investigate).
 - ◇ **Distributed/parallel data management of the above data types**
Most recent work addresses streaming data and distributed XML processing. Current work focuses on distributed/parallel graph management and processing algorithms.
- EMPLOYMENT
- ◇ **July 2000 – present:** University of Waterloo, Canada
Professor of Computer Science
 - ◇ **July 2000 – June 2005:** University of Alberta
Adjunct Professor
 - ◇ **July 1993 – June 2000:** University of Alberta, Canada
Professor of Computing Science
 - ◇ **July 1989 – June 1993:** University of Alberta, Canada
Associate Professor of Computing Science
 - ◇ **July 1984 – June 1989:** University of Alberta, Canada
Assistant Professor of Computing Science
 - ◇ **March 1983 – July 1984:** Independent Computer Consultant specializing on database systems and information system design.
 - ◇ **September 1981 – March 1983:** Ohio State University, Columbus, OH
Graduate Teaching Associate (taught introductory computing courses emphasizing PL/I and FORTRAN)
 - ◇ **January 1981 – September 1981:** Ohio State University, Columbus, OH
Graduate Research Associate
 - ◇ **March 1979 – January 1980:** Technicare, Inc., Solon, Ohio, USA
Part-Time Programmer/Analyst (developed and implemented a software simulator for the CT Scanners that the company used to build)
 - ◇ **June 1977 – January 1979:** TÜMOSAN Turkish Motor Industries and Trade Corp., Ankara, Turkey
Industrial Engineer/Systems Analyst at R&D Department

- ◇ **March 1976 – June 1977:** In-plant Training Centre for Engineers, a joint project of UNIDO (United Nations Industrial Development Organization) and Turkish Ministry of Industry and Technology.
Industrial Engineering and System Analysis Expert
 - ◇ **1975 – March 1976:** Postal, Telephone and Telegraph (PTT) Administration, Ankara, Turkey
Industrial Engineer, Electronic Data Processing Dept.
- SENIOR ADMINISTRATIVE POSITIONS
- ◇ **2014/01 – 2017/06:** Associate Dean of Research, Faculty of Mathematics, University of Waterloo
 - ◇ **2007/01 – 2010/06:** Director, David R. Cheriton School of Computer Science, University of Waterloo
 - ◇ **2000/01-03:** Acting Chair, Department of Computing Science, University of Alberta
 - ◇ **1994/07 – 1995/06:** Acting Chair, Department of Computing Science, University of Alberta
- VISITING POSITIONS
- ◇ **September 2011 – March 2011:** Visiting Professor, ETH Zürich, Department of Computer Science, Switzerland
 - ◇ **August 2010 – March 2011:** KITHCT Visiting Professor, National University of Singapore, School of Computing, Singapore
 - ◇ **September – December 2006:** Visiting Professor, National University of Singapore, School of Computing, Singapore
 - ◇ **March – June 2006:** Visiting Professor, ETH Zürich, Department of Computer Science, Switzerland
 - ◇ **April – May 2005:** Visiting Professor, National University of Singapore, School of Computing, Singapore
 - ◇ **May 1998:** Visiting Professor, University of Milano, Italy
 - ◇ **January 1998 – March 1998:** Visiting Scientist, GMD-IPSI, Darmstadt, Germany
 - ◇ **September 1997 – December 1997:** Visiting Scientist, INRIA Rocquencourt, Le Chesnay, France
 - ◇ **July 1990 – June 1991:** Visiting Scientist, GTE Laboratories, Waltham, MA, USA
- TEACHING EXPERIENCE
- ◇ **Undergraduate Courses:**
 - Principles of Data Management and Use (University of Waterloo)
 - Distributed Systems (University of Waterloo)
 - Introduction to Database Management (University of Waterloo)
 - Computer Applications in Business Databases (University of Waterloo)
 - Introduction to File and Database Systems (University of Alberta)
 - Database Management Systems (University of Alberta)
 - Telecommunications and Computers (University of Alberta)
 - Modeling and Analysis of Computer Systems (University of Alberta)
 - Switching Theory and Logical Design (University of Alberta)
 - Elements of Programming I (University of Alberta)
 - Introduction to Business Computing (University of Alberta)
 - Programming and Algorithms I (The Ohio State University)
 - Introduction to Programming (The Ohio State University)
 - Management Information Systems (Middle East Technical University, Turkey)
 - Database Systems (Middle East Technical University, Turkey)

◇ **Graduate Courses**

- Principles of Data Management and Use (University of Waterloo)
- Modern Database Systems (University of Waterloo)
- Parallel and Distributed Database Systems (University of Waterloo)
- System and Network Architectures and Implementation (University of Waterloo)
- Parallel and Distributed Databases (National University of Singapore)
- Parallel and Distributed Databases (ETH Zürich)
- Internet-Scale Distributed Data Management (University of Waterloo)
- Web Data Management (University of Waterloo)
- Distributed Database Systems (University of Waterloo & University of Alberta)
- Advanced Computer Architectures (University of Alberta)

PROFESSIONAL
ACTIVITIES

◇ **Advisory Boards**

- International Advisory Board Member, National Institute of Informatics (NII), Tokyo, Japan, 2011 – present (<http://www.nii.ac.jp/en/>).
- Advisory Board Member, Hong Kong University of Science and Technology, School of Engineering, 2009 – 2014/2017–2020.
- Advisory Board Member/Chair, Hong Kong University of Science and Technology, Department of Computer Science and Engineering, 2009 – 2012/2014–2017.
- Advisory Board Member, Hong Kong University of Science and Technology Big Data Institute, 2017–present (<http://www.cse.ust.hk/BDI/>)
- Technical Advisory Board Member, Tsinghua University National Engineering Laboratory for Big Data Software (2017–present)
- Technical Expert Advisory Committee Member, City University of Hong Kong Multimedia Software Engineering Research Center, 2014-1019 (<http://www.cityu.edu.hk/merc/>).

◇ **Professional Societies**

- Member of the Board, CS-Can/Info-Can, 2017–2010 (<http://cscan-infocan.ca>)
- Computing Research Association (CRA) Board Member, Canadian Association of Computer Science (CACS/AIC) Representative, 2009 – 2013.
- ACM Publications Board Member, 2002 – 2017.
- ACM SIGMOD Advisory Board Member, 2015–present.
- Proceedings of VLDB Advisory Board Member, 2014–present.
- ACM Special Interest Group on Data Management – SIGMOD Chair (<http://www.sigmod.org>), 2001 – 2005.
- VLDB Endowment Trustee (<http://www.vldb.org>), 1996 – 2002.
- International Federation for Cooperative Information Systems Board Member, 1999 – 2002.

◇ **Program Reviews**

- External Review Committee Member, Department of Computer Science, University of British Columbia, 2010.
- External Review Committee Member, Computer Science Department, University of California, Santa Barbara, 2001.
- Consultant, Ontario Council for Graduate Studies to review the graduate program at Department of Computer Science, York University, 2001.

◇ **Others**

- Member, CRA Committee on Scholarly Practices in Computing, 2013 – 2014.

See report at http://cra.org/resources/bp-view/best_practices_memo_evaluating_scholarship_in_hiring_tenure_and_promot/

- Major Project Leader & Member of Programme Committee, Canadian Institute for Telecommunications Research, 1998 – 2000.
- Founding Board Member, Edmonton New Media, 1996 – 1997.
- Founding Director, Research Institute for Multimedia Systems, University of Alberta, 1996 – 1997.
- Member and Chair of the Grant Selection Committee, Natural Sciences & Engineering Research Council of Canada (<http://www.nserc.ca>), 1991–1994.
- Member of the Management Committee, Canadian Genome Analysis & Technology Program, 1992 – 1993.

SCIENTIFIC
ACTIVITIES

◊ **Book Series:**

- Founding Editor-in-Chief, *ACM Book Series*, ACM, 2013 – present. Series home page: <http://books.acm.org>
- Founding Series Editor, *Synthesis Lectures on Data Management*, Morgan & Claypool, 2009 – 2013. Series home page: <http://www.morganclaypool.com/toc/dtm/1/1>. Published 38 books.
- Co-Editor-in-Chief, *Encyclopedia of Database Systems*, Springer, 2009. The second edition is currently being prepared.
- Editorial Board Member, *Web Information Systems Engineering and Internet Technologies*, Springer (2005 – present).
- Editorial Board Member, *Advanced Information and Knowledge Processing*, Springer (2002 – 2013).

◊ **Journal Activities:**

- Editorial Board Member, *World Wide Web Journal - Internet and Web Information Systems*, Springer, 2001 – present.
- Editorial Board Member, *Knowledge and Information Systems*, 2013 – present.
- Advisory Board Member, *International Journal for Next-Generation Computing*, 2011 – present.
- Editorial Board Member, *Journal of Information and Data Management*, Brazilian Computer Society, 2010 – 2013.
- Senior Advisory Board Member, *ACM Journal on Data and Information Quality*, ACM, 2007 – 2013.
- Editorial Board Member, *Information Technology and Management*, Springer, 2000 – 2013.
- Editorial Board Member, *Distributed and Parallel Databases*, Springer, 1993 – 2012.
- Associate Editor, *ACM Computing Surveys*, 2005 – 2010.
- Editor-in-Chief, *The VLDB Journal*, VLDB Endowment/Springer, 1997 – 2005. Between 2001 – 2005: Coordinating Editor-in-Chief.
- Editorial Board Member, *SIGMOD DiSC (Digital Symposium Collection)*, ACM SIGMOD, 1998 – 2001.
- Editorial Board Member, *SIGMOD Digital Review*, ACM SIGMOD, 1999 – 2001.
- Editorial Board Member, *The VLDB Journal*, VLDB Endowment/Springer, 1994 – 1997.
- Editorial Board Member, *Parallel and Distributed Technology: Systems and Applications*, IEEE Computer Society, 1992 – 1996. Title later changed to *Concurrency*.
- Guest Editor (with Qing Li), Special issue on Web Media Information Systems, *World Wide Web Journal*, 5(3), 2002.

- Guest Editor (with Stavros Christodoulakis), Special issue on Multimedia Data Management, *The VLDB Journal*, 8(1), 1999.
- Guest Editor (with Elisa Bertino), Special issue on Distributed/Parallel Object Management, *Distributed and Parallel Databases – An International Journal*, 2(1), 1994.
- Guest Editor, *INFOR*, 26(4), 1988 and 27(2), 1989.
- Guest Editor, *Canadian Information Processing*, July/August 1992.

◇ **Conference/Symposia/Workshop Activities:**

General Chair/Co-Chair:

- *35th IEEE International Conference on Management of Data (ICDE)*: 2019.
- *APWeb-WAIM Joint Conference on Web and Big Data*: 2017.
- *18th Asia-Pacific Web Conference (APWeb)*: 2016.
- *7th International Conference on Web Information Systems Engineering (WISE)*: 2006.
- *14th Conference on Advanced Information Systems Engineering (CAiSE)*: 2002.
- *International Workshop on Issues and Applications of Database Technology (IADT)*: 1998.
- *International Conference on Computing and Information*: 1998.
- *International Workshop on Distributed Object Management*: 1992.

Program Committee Chair/Co-Chair:

- *The 8th IEEE International Conference on Big Knowledge (ICBK)*: 2017.
- *ACM SIGMOD International Conference on Management of Data (SIGMOD)*: 2014.
- *International Conference on Very Large Data Bases (VLDB)*: 2004.
- *International Conference on Data Engineering (ICDE)*: 2007, 2001 (Industrial Program Co-PC Chair).
- *ACM SIGMOD/PODS PhD Symposium*: 2012.
- *International Workshop on Graph Databases (IWDG)*: 2010.
- *International Workshop on Semantic Web and Databases (SWDB)*: 2006.
- *International Database Engineering & Applications Symposium (IDEAS)*: 2002.
- *2nd International Conference on Web Information Systems Engineering (WISE)*: 2001.
- *Fourth International Workshop on Multimedia Information Systems (MIS)*: 1998.
- *Fifth International Conference on Information and Knowledge Management (CIKM)*: 1996.
- *Fifth International Workshop on Research Issues in Data Engineering: Distributed Object Management (RIDE-DOM)*: 1995.
- *CIPS (Canadian Information Processing Society) Edmonton Conference*: 1987.

Program Committee Vice-Chair/Area Chair or Senior PC Member:

- *ACM International Conference on Information and Knowledge Management*: 2015, 2016, 2017.
- *ACM SIGMOD International Conference on Management of Data*: 2013.
- *IEEE International Conference on Distributed Computing Systems*: 1992, 1996.
- *IEEE International Conference on Data Engineering*: 1993, 2003, 2006, 2011.
- *Workshop on Parallel and Distributed Database Systems* (as part of EURO-PAR): 1997.

Program Committee Member:

- *International Conference on Very Large Data Bases (VLDB)*: 1992, 1993, 1995, 1997, 1999, 2002, 2009, 2010, 2012, 2013, 2014, 2015, 2017.

- *ACM International Conference on Management of Data (SIGMOD)*: 1994, 1996, 1999, 2007, 2008, 2009, 2010, 2016, 2017, 2018.
- *IEEE International Conference on Data Engineering (ICDE)*: 1991, 1996, 1997, 1999, 2000, 2002, 2004, 2012, 2015, 2016.
- *International Conference on Extending Database Technology (EDBT)*: 2006, 2008, 2009.
- *International Conference on Similarity Search and Applications (SISAP)*: 2017
- *International World Wide Web Conference (WWW)*: 2007.
- *International Conference on Principles of Distributed Systems (OPODIS)*: 2014.
- *IEEE International Conference on Big Data*: 2014.
- *International Conference on Big Data and Smart Computing (BigData)*: 2015.
- *IEEE International Conference on Multimedia Computing and Systems (ICMCS)*: 1996, 1997, 1999.
- *Database Management and Application over Networks (DBMAN)*: 2007.
- *International Workshop on End-to-End Management of Big Data*: 2012.
- *IEEE International Conference on Data Mining (ICDM)*: 2001.
- *ACM International Conference on Knowledge and Data Discovery (KDD)*: 2001.
- *Conference on Advanced Information Systems Engineering (CAiSE)*: 2003
- *International Conference on Web Information Systems Engineering (WISE)*: 2005.
- *International Conference on Information and Knowledge Management (CIKM)*: 1995, 1998, 2012 (Senior Program Committee), 2013.
- *International Conference on Cooperative and Interoperable Information Systems (CoopIS)*: 1998, 2000, 2001.
- *International Conference on Database Systems for Advanced Applications (DASFAA)*: 2005.
- *International Conference on Distributed Computing Systems (ICDCS)*: 1993, 1994, 1998, 2002, 2006.
- *ACM/IFIP/USENIX 7th International Middleware Conference (Middleware)*: 2006, 2007.
- *Fourth International XML Database Symposium (XSym)*: 2006.
- *International Workshop on Research Issues in Data Engineering (RIDE)*: 1993, 1996, 1997, 1998, 1999, 2001, 2002.
- *Third International Workshop on Networks Meets Databases (NetDB)*: 2007.
- *IEEE Workshop on Information & Software as Services (WISS)*: 2009, 2010.
- *European Conference on Object Oriented Programming (ECOOP)*: 2000.
- *International Workshop on Database Technologies for Handling XML Information on the Web*: 2006.
- *2nd International Workshop on Information Quality in Information Systems*: 2005.
- *Brazilian Symposium on Databases (SBBD)*: 2004, 2005, 2006, 2007.
- *International Symposium on Computer and Information Sciences (ISCIS)*, 2004, 2005, 2007.
- *IFIP 2.6 Working Conference on Data on Semantics Issues in Multimedia Semantics (DS)*: 1999, 2001.
- *International Workshop on Persistent Object Systems (POS)*: 1994, 1998, 2000.
- *IFIP 2.6 Working Conference on Visual Database Systems (VDB)*: 1998, 2000.
- *International Symposium (formerly Workshop) on Temporal Representation and Reasoning (TIME)*: 2001.

- *Third International Symposium on Cooperative Database Systems for Advanced Applications (CODAS)*: 2001.
- *International Conference on Advances in Visual Interfaces (AVI)*: 2000.
- *International Symposium on Distributed Object and Applications (DOA)*: 1999, 2000.
- *International Conference on Applications of Databases (ADB)*: 1994, 1995.
- *International Conference on Parallel and Distributed Information Systems (PDIS)*: 1994.
- *International Conference on Computer Communications and Networks*: 1995, 1996.
- *International Workshop on Multimedia Information Systems (MIS)*: 1999, 2001, 2005.
- *International Workshop on Interacting with Databases (IDA)*: 2000.
- *IBM CASCON Conference*: 1998.
- *IEEE Knowledge and Data Engineering Exchange Workshop*: 1997.
- *International Conference on Management of Data*: 1994. (India)
- *International Symposium on Applied Corporate Computing*: 1993, 1994. (Mexico)
- *International Symposium on Object-Oriented Methodologies and Systems*: 1994. (Italy)
- *International Conference on Parallel and Distributed Systems*: 1993. (Taiwan)
- *The International Workshop on Next Generation Information Technologies and Systems (NGITS)*: 1993. (Israel)
- *International Conference on Computing and Information*: 1992.
- *Symposium on Applied Computing (SAC)*: 1993.
- *CIPS (Canadian Information Processing Society) National Congress*: 1989.
- *CIPS Edmonton Conference*: 1986, 1988.

Others:

- Best Paper Selection Committee Chair, *ACM SIGMOD International Conference on Management of Data*: 2013.
- Honorary Chair, *International Conference on Very Large Data Bases*: 2012.
- Ten-Year Best Paper Award Committee Chair, *International Conference on Very Large Data Bases*: 2010.
- Tutorials Committee, *ACM International Conference on Databases*: 2009.
- Tutorial Chair, *International Conference on Very Large Data Bases*: 1997.
- Tutorial Chair, *IEEE International Conference on Data Engineering*: 1998.
- Tutorial Chair, *International Symposium on Databases in Parallel and Distributed Systems*: 1988.
- Co-organizer, *Dagstuhl Workshop on Data Quality on the Web*, Dagstuhl, Germany, September 2003.
- Panel Organizer, *Web Information Systems Engineering*, 14th International Conference on Advanced Information Systems Engineering (CAiSE), 2002.
- Advanced Technology Seminars Chair, *IEEE International Conference On Data Engineering (ICDE)*, 2002.
- Panel Organizer, *Data Management Issues in Electronic Commerce*, ACM International Conference on Management of Data (SIGMOD), 1999.
- Co-organizer, *Dagstuhl Workshop on Database Support for Digital Libraries*, Dagstuhl, Germany, August 1999.
- Co-organizer, *NATO Advanced Systems Institute on Workflow Systems and Interoperability*, Istanbul, Turkey, 12-20 August, 1997.

- Steering Committee Member, *International Workshop on Temporal Databases*: 1995.
 - Co-organizer, *NATO Advanced Systems Institute on Object-Oriented Database Systems*, Kusadasi, Turkey, 6-17 August, 1993.
 - Organizing Committee Member, *International Workshop on an Infrastructure for Temporal Databases*: 1993.
 - Demos Chair, *ACM SIGMOD/PODS Conference*: 1997.
 - Organizing Chair, *18th International Conference on Very Large Data Bases*: 1992.
 - Publicity Chair, *ACM SIGMOD/PODS Conference*: 1996; *VLDB Conference*: 1998; *International Conference on Distributed Information Systems*: 1991; *8th ACM SIGACT-SIGOPS Symposium on Principles of Distributed Computing*: 1989.
 - Advisory Committee Member of the Software Technology Track, *28th Hawaii International Conference on System Sciences*: 1995.
 - Steering Committee Member, *4th International Conference on Computing and Information*: 1993.
 - Coordinator, Issues in Distributed Databases Session, *Hawaii International Conference on System Sciences*: 1986, 1987.
- ◇ **Grant Review Activities**
- Natural Sciences and Research Council of Canada.
 - National Science Foundation, USA.
 - Austrian Science Foundation (FWF).
 - Hong Kong Research Grants Council (RGC).
 - Norwegian Research Program.
 - Swiss National Science Foundation.
 - Icelandic Research Fund.
 - Portuguese Foundation for Science and Technology.

UNIVERSITY
SERVICE

Unless otherwise noted, all responsibilities after 2000 are at the University of Waterloo; earlier ones are at the University of Alberta.

◇ **University and Faculty Level Responsibilities**

2015/06 – 2016/06: Interim Chair, *Bibliometrics Working Group*

2014/01 – 2016/06: Associate Dean of Research, *Faculty of Mathematics*

2014/01 – 2016/06: Member, *Senate Graduate and Research Committee*

2009 – 2010: Member, *Review Committee for Renewal of Waterloo Institute for Health Informatics Research*

2005 – 2006: Member, *Nominating Committee for Director of School of Computer Science*

2003 – 2004: Member, *Faculty of Mathematics Dean Selection Committee*;

2001 – 2002: Member, *Nominating Committee for Chair of Department of Computer Science*

2000 – 2001: Chair, *Ad hoc Committee on Department Governance* (The Committee, formed jointly by the Dean of Mathematics and the Chair of Computer Science, proposed a new model of governance for Computer Science that included recommendations for substantially changing the organization and operation of both Computer Science and the Faculty of Mathematics); Member, *Ad hoc Committee on Departmental Reorganization* (This is a precursor to the Committee on Governance; it was also struck jointly by the Dean of Mathematics and the Chair of Computer Science with the mandate of surveying the Department of Computer Science and determining the governance-related issues); Member, *Department of Computer Science Representative to Math Faculty Computing Facility Advisory Committee*

1998 – 1999: Member, *Technology Enhanced Instructional Spaces Advisory Committee* (A university committee that plans and budgets for the establishment of new and renewal of existing instructional computer laboratories); Member, *Faculty of Science – Information Technology Committee*

1996: Faculty of Science representative on the *Committee on Space Planning*

1995: Member, *General Appeals Committee* (This is a standing committee of the Academic Vice-President. office dealing with appeals by faculty members of their annual evaluations. I was an ad hoc member for one case)

1995 – 1997: Member, *Faculty of Science Research Award Selection Committee*

1995 – 1996: Member, *Faculty of Science Selection Committee for the Gordin Kaplan Award for Excellence in Research*

1994 – 1996: Member and Chair (1995 – 96), *McCalla Professor Selection Committee*, Faculty of Science

◇ **School/Department Level Responsibilities**

2012 – 2014: Member, *Advisory Committee on Appointments*; Member, *Graduate Recruiting Committee*

2007/01 – 2010/06: Director, David R. Cheriton School of Computer Science

2006 – 2007: Member, *Tenure and Promotion Committee*

2005 – 2006: Member, *Tenure and Promotion Committee*; Chair, *Undergraduate Recruiting Committee*

2003 – 2004: Member, *Advisory Committee on Appointments*

2002 – 2003: Member, *Advisory Committee on Appointments*

2001 – 2002: Member, *Graduate Committee*; Member, *Infrastructure Committee*; Member, *Advisory Committee on Appointments*

1998 – 1999: Chair, *Computing Resources Policy Committee*; Member, *Recruiting Committee*; Member, *Executive Committee*

1994/07 – 1995/06: Acting Chair, Department of Computing Science

1993 – 1994: Member of *Department of Computing Science Chair Selection Committee*

1991 – 1993: Chair, *Research Planning and External Affairs Committee*

1988 – 1990: Member, *Executive Committee*; Chair, *Graduate Committee*

1985 – 1988: Member, *Executive Committee*; Member, *Graduate Committee*

1986 – 1988: Member, *Computing Resources Policy Committee*

STUDENTS &
RESEARCH
PERSONNEL

◇ **Current PhD Students:**

- Khaled Ammar (Fall 2011 – present), Parallel Analytics over Dynamic Graphs.
- Zeynep Korkmaz (Winter 2013 – present), Caching Techniques for Efficient Query Execution over Property Graphs.
- Anıl Paçacı (Fall 2015 – present), Querying Streaming Graphs.
- Aida Sheshbolouki (Fall 2017 – present), To be determined.

◇ **Current MMath Students:**

- None at the moment

◇ **Post-Doctoral Fellows and Research Associates:**

- Dr. Bojana Bislimovska (October 2015 – present)
- Dr. Xiaofei Zhang (December 2015 – present)
- Dr. Guoqing Xiao (October 2017 – present)

◊ **Graduated PhD Students:**

16. *Güneş Aluç*
Thesis title: Scalable, Adaptive, and Distributed RDF Data Management
Graduation date: Fall 2015
Current affiliation: SAP, Waterloo, Canada
15. *Patrick Kling*
Thesis title: Distributed XML Query Processing
Graduation date: Spring 2012
Current affiliation: Google, Waterloo, Canada
14. *Dr. Yingying Tao*
Thesis title: Mining Time-Changing Data Streams
Graduation date: Spring 2012
Current affiliation: CI Investments Inc., Toronto, Canada
13. *Dr. Qiang Wang*
Thesis title: Efficient Range and Join Query Processing in Massively Distributed Peer-to-Peer Networks
Graduation date: Fall 2008
Current affiliation: Oracle Corp., Seattle, WA, USA
12. *Dr. Ning Zhang*
Thesis title: XQuery Evaluation and Optimization: A Native Approach
Graduation date: Fall 2006
Current affiliation: Facebook, CA, USA
11. *Dr. Lukasz Golab*
Thesis title: Processing Continuous Queries over On-line Data Streams
Graduation date: Fall 2006
Current affiliation: Associate Professor of Management Science, University of Waterloo, Waterloo, Canada
Winner of Alumni Gold Medal
10. *Dr. Lei Chen*
Thesis title: Similarity Search Over Time Series and Trajectory Data
Graduation date: Spring 2005
Current affiliation: Professor of Computer Science at Hong Kong University of Science and Technology, Hong Kong.
9. *Dr. Kaladhar Voruganti*
Thesis title: Studies on Client Caching DBMS Architectures and Algorithms
Graduation date: Spring 2001
Current affiliation: VP, Technology Innovation, Equinix, Redwood City, CA, USA
Co-supervised with Ron Unrau
8. *Dr. Lingling Yan*
Thesis title: Building Scalable and Flexible Mediation: The AURORA Approach
Graduation date: Spring 2000
Current affiliation: Director, Product Management, Dataguisse, Fremont, CA, USA
7. *Dr. Yuri Leontiev*
Thesis title: Type System for an Object-Oriented Database Programming Language
Graduation date: Fall 1999
Current affiliation: Electronic Arts, Edmonton, Canada
Winner of 1999 Governor General Award and 2001 NSERC Doctoral Dissertation Award
Co-supervised with Duane Szafron
6. *Dr. Iqbal Gorawalla*
Thesis title: Temporal Aspects and Rule Systems in Object-Oriented Database Systems
Graduation date: Spring 1998

Current affiliation: Principal Consultant at Triton Consulting, UK.
Co-supervised with Duane Szafron

5. *Dr. John Z. Li*

Thesis title: Query Languages for Multimedia Database Systems and their Optimization

Graduation date: Spring 1998

Current affiliation: Accenture Ltd, Mississauga, Ontario, Canada

Co-supervised with Duane Szafron

4. *Dr. Randal Peters*

Thesis title: Formal Models, Views and Languages for Object-Oriented Database Systems

Graduation date: Spring 1994

Current affiliation: Instructor at Red River College and Director of IT, Sherpa (EMS) Ltd.,
Winnipeg, Canada

3. *Dr. Dave D. Straube*

Thesis title: Queries and Query Processing in Object Oriented Database Systems

Graduation date: Spring 1991

Current affiliation: Retired.

2. *Dr. Kenneth Barker*

Thesis title: Transaction Management in Multidatabase Systems

Graduation date: Fall 1990

Current affiliation: Professor of Computer Science, University of Calgary, Calgary, Canada

1. *Dr. Abdel A. Farrag*

Thesis title: Concurrency and Consistency in Database Systems

Graduation date: Spring 1986

Current affiliation: Professor of Computer Science, Dalhousie University, Halifax, Canada.

◇ **Graduated Master's Students:**

37. *Libo Gao*

Thesis title: Streaming WatDiv – A Streaming RDF Benchmark

Graduation date: Spring 2018

36. *Yan Zhang*

Thesis title: Efficient Structure-Aware Query Processing over Large Property Graphs

Graduation date: Spring 2018

35. *Ning Zhang*

Non-thesis master's

Graduation date: Fall 2014

Last known affiliation: Google, Kitchener, Canada

34. *Yuke Yang*

Thesis title: ViewDF: a Flexible Framework for Incremental View Maintenance in Stream
Data Warehouses

Graduation date: Fall 2013

Last known affiliation: Kobo Inc., Toronto, Canada

33. *Xin Zhan*

Essay title: Survey on Energy Efficient Computing

Graduation date: Spring 2010

Last known affiliation: RBC Capital Markets, Toronto, Canada

32. *Amod Gupta*

Thesis title: Audio Processing on Constrained Devices

Graduation date: Spring 2010

Last known affiliation: Microsoft Corp., Redmond, WA, USA

31. *Jack Ng*

Essay title: Extending Progressive Optimization to a Shared-Nothing Parallel Database

Architecture

Graduation date: Spring 2007

Last known affiliation: IBM Toronto Laboratories, Toronto, Canada

30. *Emre Cem Özgen*

Thesis title: View Selection in XML Query Processing

Graduation date: Fall 2006

Last known affiliation: Salesforce, CA, USA

29. *Sam Lightstone*

Thesis title: Automated Design of Multi-Dimensional Clustering Tables for Relational Databases

Graduation date: Spring 2004

Last known affiliation: IBM Toronto Laboratories, Toronto, Canada

28. *Mohammad Hossain Sheikh Attar*

Thesis title: Alternative Architectures and Protocols for Providing Strong Consistency in Dynamic Web Applications

Graduation date: Spring 2004

Last known affiliation: unknown

27. *Weimin Li*

Thesis title: XComp: An XML Compression Tool

Graduation date: Fall 2003

Last known affiliation: Economic Insurance Group, Waterloo, Canada.

26. *Catalin Visinescu*

Thesis title: Incremental Data Distribution on Internet-Based Distributed Systems: A Spring System Approach

Graduation date: Fall 2003

Last known affiliation: Research in Motion, Waterloo, Canada.

25. *Sunny K.S. Lam*

Thesis title: WebQA: A Web Querying Using the QA Approach

Graduation date: Spring 2002

Last known affiliation: Oracle Canada, Toronto, Canada.

24. *Yuxin (Leon) Cao*

Thesis title: The Evaluation of Strong Web Caching Consistency Algorithms

Graduation date: Spring 2002

Last known affiliation: unknown

23. *Shu Lin*

Thesis title: An Extendible Hashing Structure for Image Similarity Searches

Graduation date: Fall 2000

Last known affiliation: IBM Canada Laboratories, Toronto, Canada

22. *Justin Amalraj*

Thesis title: Performance Evaluation of Optimistic Cache Consistency Algorithms for Web-based Electronic Commerce Applications

Graduation date: Fall 2000

Last known affiliation: unknown

21. *Benjamin Bin Yao*

Thesis title: Building an Interoperable Distributed Image Database Management System on top of a CORBA Platform

Graduation date: Fall 2000

Last known affiliation: SAP Laboratories, Montreal, Canada

20. *Bing Xu*

Thesis title: Design and Development of a Visual Query Interface for DISIMA Image DBMS

- Graduation date:** Spring 2000
Last known affiliation: IBM Canada, Toronto, Canada
19. *Irene Lin-Oi Cheng*
Thesis title: Image Databases: A Content-Based Type System and Query by Similarity Match
Graduation date: Spring 1999
Last known affiliation: Director, Multimedia Research Centre, University of Alberta
 18. *Adriana Zubiri (Manas)*
Thesis title: Design and Implementation of an Object Database for Injury Surveillance
Graduation date: Fall 1997
Last known affiliation: IBM Toronto Laboratories, Toronto, Canada.
 17. *Sherine El-Medani*
Thesis title: Coupling an SGML Compiler With a Multimedia Database Management System
Graduation date: Fall 1996
Last known affiliation: Siemens, Ottawa, Canada
Co-supervised with Duane Szafron
 16. *Manuela Junghaans (Schone)*
Thesis title: A Generic Type System for Object-Oriented Multimedia Databases
Graduation date: Fall 1996
Last known affiliation: Siemens AG, Berlin, Germany
Co-supervised with Duane Szafron
 15. *Ghada El-Medani*
Thesis title: A Visual Query Facility for Multimedia Databases
Graduation date: Fall 1995
Last known affiliation: Nortel, Ottawa, Canada
Co-supervised with Duane Szafron
 14. *Chiradeep Vittal*
Thesis title: Design and Implementation of an Object-Oriented Multimedia Database System for News-on-Demand
Graduation date: Fall 1995
Last known affiliation: ONI Systems, San Jose, CA, USA
Co-supervised with Duane Szafron
 13. *Adriana Munoz*
Thesis title: An Extensible Query Optimizer Architecture for the TIGUKAT Objectbase Management System
Graduation date: Spring 1994
Last known affiliation: PhD Student, University of Ottawa, Canada
 12. *Kaladhar Voruganti*
Thesis title: Benchmarking for new database application domains
Graduation date: Spring 1993
Last known affiliation: See above under Former PhD students
Essay-based master's
 11. *Yun Wang*
Thesis title: Advanced Transaction Models and Management Strategies for Object-Oriented Database Systems
Graduation date: Spring 1993
Last known affiliation: Destiny Software, Wishohocken, Pennsylvania, USA
Essay-based master's
 10. *Ana Dominguez*
Thesis title: A Query Optimization Strategy for Multidatabase Systems

Graduation date: Fall 1993

Last known affiliation: PrePrint Inc., Edmonton, Canada.

9. *Boman B. Irani*

Thesis title: Implementation of TIGUKAT Object Model

Graduation date: Fall 1993

Last known affiliation: Sun Microsystems, Palo Alto, CA, USA

8. *Anna P. Lipka*

Thesis title: The Design and Implementation of TIGUKAT User Languages

Graduation date: Fall 1993

Last known affiliation: Alias-Wavefront, Toronto, Ontario, Canada.

7. *Youping Niu*

Thesis title: Network Communication Overhead in Distributed Concurrency Control Performance

Graduation date: Fall 1990

Last known affiliation: unknown

6. *Yan Li*

Thesis title: Communication in FLEX

Graduation date: Spring 1990

Last known affiliation: unknown

5. *Meei Fen Teo*

Thesis title: Experiments on the Implementation of Database Buffer Management Strategies in Virtual Memory Environments

Graduation date: Spring 1989

Last known affiliation: unknown

4. *Kok-Lung Wong*

Thesis title: Distributed Simulation of Performance Petri Nets

Graduation date: Fall 1988

Last known affiliation: unknown

3. *David Meechan*

Thesis title: A Heuristic Approach to Query Processing

Graduation date: Spring 1988

Last known affiliation: Zim Technologies International, Barbados

2. *Christina Lau*

Thesis title: Object Management, Protection and Scheduling in FLEX

Graduation date: Spring 1988

Last known affiliation: IBM Laboratories, Toronto, Canada

1. *Tse-Men Koon*

Thesis title: Performance of Resilient Synchronization Mechanisms for Distributed Databases

Graduation date: Spring 1986

Last known affiliation: unknown

◇ **Former Post-Doctoral Fellows and Research Associates:**

- Dr. Olaf Hartig, November 2012 – November 2014. Degree from Humboldt Universität zu Berlin, Germany. Assistant Professor (Universitätslektor), Department of Computer and Information Science, Linköping University, Sweden.
- Dr. Reza Akbarania, December 2007-December 2008. Degree from Université de Nantes, France. Research Scientist at INRIA Sophia Antipolis - Méditerranée Research Center, Limm Laboratory, Université de Montpellier, France.
- Dr. Susanne Busse, July – September 2007, Degree from Technische Universität Berlin. Professor at Fachhochschule Brandenburg, Fachbereich Informatik und Medien.

- Dr. Vincent Oria, University of Alberta, May 1996 – December 1999. Degree from Ecole Nationale Supérieure des Télécommunications, France. Professor of Computer Science at New Jersey Institute of Technology, Newark, NJ, USA.
- Paul Iglinski, University of Alberta. January 1995 – July 2000. Retired from University of Alberta.

◊ **Former Visiting Students:**

- Youhuan Li, PhD student at Peking University, China, September 2016 – April 2017.
- Bojana Bislimovska, PhD student at Politecnico di Milano, Italy, June-September 2012 and June-September 2013.
- Tao Chen, PhD student at National University of Defense Technology, China, October 2009–March 2011 (graduation date: 2011). Currently researcher at Beijing Proteome Research Center, Beijing Institute of Radiation Medicine, China.
- Lei Zou, PhD student at Huazhong University of Science and Technology, China, September 2008-October 2009 (graduation date: 2009). Currently Assistant Professor, Institute of Computer Science & Technology, Peking University, China.
- Raymond Wong, PhD student at Chinese University of Hong Kong, June-July 2008 (graduation date: 2008). Currently Assistant Professor, Department of Computer Science, Hong Kong University of Science and Technology, Hong Kong.
- Nan Tang, PhD student at Chinese University of Hong Kong, March - August 2007 (graduation date: 2008). Currently Researcher at Qatar Computing Research Institute, Qatar.
- Yueguo Chen, PhD student at National University of Singapore, April - June 2007 (graduation date: 2009). Currently Associate Professor, Department of Computer Science, Renmin University, China.
- Xiaoyan Yang, PhD student at National University of Singapore, April - June 2007 (graduation date: 2012). Currently Researcher at Advanced Digital Sciences Center, Singapore.
- Sebastian Schär, Master's student at Dresden University of Technology, Germany, 2004.
- Abdullah Diltemiz, Master's student at RWTH Aachen, Germany, 2003-2004.
- Sule Gündüz-Öğüdücü, PhD student at Istanbul Technical University, Turkey, 2001-2002 (graduation date: 2003). Currently Associate Professor, Department of Computer Engineering, Istanbul Technical University, Turkey.
- Henrike Berthold, PhD student at Dresden University of Technology, Germany, 2000 (graduation date: 2002)
- Sylvia Hollfelder, PhD student at Technical University of Darmstadt, Germany, 1999 (graduation date: 2004)
- Katherine Gayer, Master's student at Technical University of Darmstadt, Germany, 1996.

◊ **Undergraduate Interns:**

- Boshen Cui, University of Waterloo, Fall 2017.
- Runsheng Guo, University of Waterloo, Fall 2017.
- Vincent Luong, University of Waterloo, Spring 2017.
- Anzo Zhao Yang Teh, University of Waterloo, Spring 2017.
- Heli Wang, University of Waterloo, Spring 2017.
- Anselme Goetschmann, University of Waterloo, Spring 2017.
- Weiyan Zhu, University of Waterloo, Spring 2017.
- Zhuoran Yu, University of Waterloo, Spring & Fall 2017.
- Amod Gupta, Indian Institute of Information Technology, Allahabad, India, Spring 2006.
- Kumar Gaurav Bijay, Indian Institute of Technology, Bombay, India, 2005.

- Abhay Kumar Jha, Indian Institute of Technology, Bombay, India, Spring 2005.
- Piyush Prahladka, Indian Institute of Technology, Bombay, India, Spring 2004.
- Shishir K. Agrawal, Indian Institute of Technology, Bombay, India, Spring 2004.
- Varun Kochalia, Indian Institute of Technology, Bombay, India, Spring 2003.
- Shaveen Garg, Indian Institute of Technology, Bombay, India, Spring 2003.
- Shariq Rizvi, Indian Institute of Technology, Bombay, India, Spring 2002.
- Nitin Khendelwal, Indian Institute of Technology, Bombay, India, Spring 2002.
- Andreas Doms, Dresden University of Technology, Germany, 2001-2002.
- Mirko Seifert, Dresden University of Technology, Germany, 2001-2002.
- Bilal Shirazi, University of Waterloo, Spring 2002.
- Aameek Singh, Indian Institute of Technology, Bombay, India, Spring 2001.

◊ **External Examiner:**

- Priyanka Vashisht, Thapar University, India, 2017 (PhD).
- Vincent Leroy, University of Grenoble, France 2017 (Rapporteur for Habilitation à Diriger les Recherches).
- Sairam Gurajada, Saarland University, Germany, 2017 (PhD).
- Sobhan Badiozamy, University of Uppsala, Sweden, 2016 (PhD)
- Stamatis Zampetakis, Université Paris-Sud and Inria-Saclay, France, 2015 (PhD)
- Le Thuy Ngoc, National University of Singapore, 2014 (PhD)
- Laurent Amsaleg, Université de Rennes 1, France, 2014 (Rapporteur for Habilitation à Diriger les Recherches)
- Cagri Balkesen, ETH Zürich, Switzerland, 2014 (PhD)
- Erietta Liarou, Universiteit van Amsterdam, The Netherlands, 2013 (PhD)
- Alexandru Maga, ETH Zürich, Switzerland, 2011 (PhD)
- Sadegh Nobari, National University of Singapore, 2012 (PhD)
- Michael Duller, ETH Zürich, Switzerland, 2011 (PhD)
- Huayu Wu, National University of Singapore, 2011 (PhD)
- Irina Magdalena Botan, ETH Zürich, Switzerland, 2011 (PhD)
- Liang Xu, National University of Singapore, 2010 (PhD)
- Ladjel Bellatreche, Université de Poitiers, France, 2009, (Rapporteur for Habilitation à Diriger les Recherches)
- Haifeng Liu, University of Toronto, Canada, 2009 (PhD)
- Nan Tang, Chinese University of Hong Kong, Hong Kong, 2008 (PhD)
- Eric Lo, ETH Zürich, Switzerland, 2007 (PhD)
- Christian Plattner, ETH Zürich, Switzerland, 2006 (PhD)
- Changqing Li, National University of Singapore, 2006 (PhD)
- Attila Barta, University of Toronto, Canada 2006 (PhD)
- Thomas Heimrich, Technical University of Ilmenau, Germany, 2005 (PhD)
- Timour Katchaounov, University of Uppsala, Sweden, 2003 (PhD)
- Henrique Paques, Georgia Institute of Technology, USA, 2003 (PhD)
- Andrea Cali, Università di Roma La Sapienza. Italy, 2002 (PhD)
- Henrike Berthold, Dresden University of Technology, Germany, 2002 (PhD)

- Ioana Manolescu, Université de Versailles, France, 2001(PhD; Rapporteur)
- Eleana Kafeza, Hong Kong University of Science and Technology, Hong Kong, 2000 (PhD)
- Alban Gabillon, Université de Toulon, France, 2000 (Rapporteur for Habilitation à Diriger les Recherches)
- Mikael Ronström, University of Linköping, Sweden, 1998 (PhD)
- Jacek Skowronek, University of Twente, The Netherlands, 1997 (PhD)
- Panagiotis Patsouris, University of Witwatersrand, South Africa, 1997 (PhD)
- Gopi Attaluri, University of Waterloo, Canada, 1996 (PhD)
- Li Yu, University of Western Ontario, Canada, 1992 (PhD)
- Vinay Deshpande, University of Waterloo, Canada, 1991 (PhD)
- Bjorn Bergsten, Université Paris 6, France, 1991 (PhD)

RESEARCH &
OTHER FUNDING

Total of about \$15M. Unless otherwise noted, all of the following are in Canadian Dollars. NSERC grants are net without overhead. In most of these, I am the PI; the few where I am not the PI are marked by †.

- ◇ Scaling the Cluster Computing Infrastructure for Scalable Big Data Management and Analysis. Canada Foundation for Innovation Infrastructure Operating Fund, 2017–2022, \$39,000 (joint with Ian Munro and Khuzaima Daudjee).
- ◇ Approximate Graph Query Answering over Streaming Microblogs, NSERC Collaborative Research and Development Grant, 2016-2017, \$76,545. Matches the Google Faculty Research Award.
- ◇ Scaling the Cluster Computing Infrastructure for Scalable Big Data Management and Analysis. Canada Foundation for Innovation and Ontario Research Fund, 2016, \$264,050 (joint with Ian Munro and Khuzaima Daudjee).
- ◇ Approximate Query Answering over Streaming Microblogs Using Graph Models. Google Faculty Research Award, 2015, US\$39,000.
- ◇ RDF Data Management. NSERC Discovery Grant, 2014-2019, \$54,000/year.
- ◇ NSERC Accelerator Grant, 2014-2017, \$40,000/year.
- ◇ Cluster Computing Infrastructure for Scalable Big Data Management and Analysis. Canada Foundation for Innovation and Ontario Research Fund, 2013, \$538,536 (joint with Ian Munro and Khuzaima Daudjee).
- ◇ Techniques and Systems for Parallel Graph Analysis. IBM Centre for Advanced Studies, 2013-2015, \$28,000/year.
- ◇ Focusing on the Data in Web-Scale Data Integration. Business Intelligence NSERC Strategic Network, 2012-2013, \$25,000 (joint with Ashraf Abounaga).
- ◇ Modeling and Querying Uncertainty in Record De-duplication and Repairing FD Violations. Business Intelligence NSERC Strategic Network, 2012-2013, \$25,000 (joint with Ihab Ilyas).
- ◇ Modeling and Querying Uncertainty in Record De-duplication. Business Intelligence NSERC Strategic Network, 2011-2012, \$52,000 (joint with Ihab Ilyas).
- ◇ Multi-Platform Digital Media Enabling Technologies. Ontario Research Fund, 2010-2015, \$4,899,045.
- ◇ Beyond Mashups: Data Integration for End-Users. Google Faculty Research Award, 2009, US\$70,000.
- ◇ Studies in Advanced Distributed Data Management. NSERC Discovery Grant, 2009-2014, \$70,000/year.
- ◇ Distributed XML Processing. Business Intelligence NSERC Strategic Network, 2009-2011, \$37,500 (joint with Denilson Barbosa, University of Alberta).

- ◇ Keyword-enabling Data Warehouses†. Business Intelligence NSERC Strategic Network, 2009-2011, \$44,000/year (joint with Ihab Ilyas, University of Waterloo and Laks Lakshmanan, UBC).
- ◇ Change Detecting and Mining of Dynamic Data Streams. IBM Centre for Advanced Studies, 2009-2011, \$28,000/year.
- ◇ Data Stream Management in Sensor Networks. Communications and Information Technology Ontario (CITO) Grant, 2005-2007, \$125,821.
- ◇ Data Stream Systems. Sun Microsystems Grant, 2004-2005, \$40,000.
- ◇ Internet-based Data Management Issues. NSERC Discovery Grant, 2004-2008, \$65,700/year.
- ◇ Database Technology in IP Telephony†. Communications and Information Technology Ontario, 2003-2005, \$118,500/year (including \$30,000 from Nortel; joint with Grant Weddell and David Toman).
- ◇ The Software Telecommunications Group (STG). 2002-2007, Ontario Research and Development Challenge Fund (ORDCF): \$4,730,000 (including \$2,480,000 from Nortel and \$300,000 from Sun Microsystems); Co-PIs: Ric Holt, M. Tamer Özsu, Johnny Wong.
- ◇ Issues in Developing Next Generation Distributed Database Systems. NSERC Individual Research Grant, 1999-2004, \$38,000/year.
- ◇ Managing Large, Diverse Data Sources†. Bell University Laboratories Grant, 2000-2002, \$225,000/year (with 8 others; Frank Tompa as PI).
- ◇ Equipment for Database Systems Research†. NSERC Equipment Grant, 2001, \$56,970 (with 7 others; Ken Salem as PI).
- ◇ *Enabling Technologies for Electronic Commerce Major Project*: Funding for two projects: Development of Multimedia Virtual Catalogs and Interoperability Issues in Electronic Commerce. 1998-1999: \$76,500, 1999-2002: \$61,000/year; Project Integration and Management. 1998-2001: \$61,000/year. This major project was part of the Canadian Institute for Telecommunications Research (CITR), one of the Canadian Networks of Centres of Excellence.
- ◇ Distributed Image Databases. Institute for Robotics and Intelligent Systems (IRIS), one of the Canadian Networks of Centres of Excellence, 1998 – 1999: \$30,000/year; 1999 – 2005: \$20,000/year.
- ◇ CAVE Virtual Reality†. Natural Sciences and Engineering Research Council of Canada (NSERC) Major Installation Grant, 1998, \$433,000 (PI: Mark Green).
- ◇ Design and Implementation of an Enactment Service for a Workflow System (PI: Mark Green). NATO Collaborative Research Grant, 1997 – 1998, Belgian Francs 204,000 (with Asuman Dogac of Middle East Technical University as PI).
- ◇ A Distributed Image Database Management System. Natural Sciences and Engineering Research Council of Canada (NSERC) Strategic Grant, 1995 – 1999, \$327,620.
- ◇ Electronic Commerce. Part of the Broadband Services Major Project of Canadian Institute for Telecommunications Research (CITR), one of the Canadian Networks of Centres of Excellence, 1996 – 1998, \$100,000/year.
- ◇ Design and Implementation of Distributed Objectbase Management Systems. Natural Sciences and Engineering Research Council of Canada (NSERC) Research Grant, 1995 – 1999, \$30,900/year.
- ◇ Multimedia Data Management. as part of the Broadband Services Major Project of Canadian Institute for Telecommunications Research (CITR), one of the Canadian Networks of Centres of Excellence, 1993 – 1998, \$437,875.
- ◇ Upgrade to the Laboratory for Database Systems Research. Natural Sciences and Engineering Research Council of Canada (NSERC) Equipment Grant, 1993 – 1994, \$38,500.
- ◇ Artificial Intelligence – Database Systems Group Infrastructure Grant†. Natural Sciences and Engineering Research Council of Canada (NSERC), 1994 – 1997, \$33,000/year (with 8 others).

- ◇ Design and Implementation of Distributed Object-Oriented Database Systems. Natural Sciences and Engineering Research Council of Canada (NSERC) Operating Grant, 1991 – 1994, \$28,000/year.
- ◇ Visit of Researcher Patrick Valduriez. 1991 – 1992, Operating Grant, University of Alberta Central Research Fund, \$5,000.
- ◇ Laboratory for Database Systems Research. Natural Sciences and Engineering Research Council of Canada (NSERC) Equipment Grant, 1990 – 1991, \$43,397 (with three other applicants).
- ◇ Artificial Intelligence – Database Systems Group Infrastructure Grant†. Natural Sciences and Engineering Research Council of Canada (NSERC), 1991 – 1993, \$45,000/year (with 25 other applicants).
- ◇ CPU Server†. Natural Sciences and Engineering Research Council of Canada (NSERC) Major Equipment Grant, 1990, \$194,530 (with 25 other applicants).
- ◇ Design and Implementation of DIDOS: A Distributed Database Operating System. Natural Sciences and Engineering Research Council of Canada (NSERC) Operating Grant, 1988 – 1991, \$19,477/year.
- ◇ Visit to Institute for System Studies, Moscow, U.S.S.R., June 18 – July 2, 1988, Travel Grant, University of Alberta Central Research Fund, \$1,700.
- ◇ Interfacing Distributed Databases with Operating Systems. Natural Sciences and Engineering Research Council of Canada (NSERC) Operating Grant, 1987 – 1988, \$14,000.
- ◇ Analysis and Design of Distributed Database Systems/Operating System Support for Distributed Databases. Natural Sciences and Engineering Research Council of Canada (NSERC) Operating Grant, 1986 – 1987, \$13,797.
- ◇ Attendance at the 19th Hawaii International Conference on System Sciences. January 1986, Travel Grant, University of Alberta Central Research Fund, \$1,000.
- ◇ Analysis and Design of Distributed Database Systems. Natural Sciences and Engineering Research Council of Canada (NSERC) Operating Grant, 1985 – 1986, \$13,140.
- ◇ Distributed Computing Group Infrastructure Grant†, Natural Sciences and Engineering Research Council of Canada (NSERC), 1985 – 1986, \$69,000 (with 13 other applicants).
- ◇ A Net Simulator for Distributed Database Systems. University of Alberta Central Research Fund, 1984 – 1985, \$8,000.

CONSULTING &
EXTERNAL
SEMINARS

◇ **Industrial Consulting:**

BlueCat Networks, Toronto, Canada (2011)

Consulted on patent infringement issues.

Pre Print Inc., Edmonton, Canada (1996)

PrePrint develops software for the creation of yellow page directories. The assignment included providing assistance for distribution design of the database that is used for this application.

Bull Information Systems, Phoenix, USA (1993)

Consultancy in distributed database management. A major portion of the consulting involved a three-day intensive (18 hours) course on this topic for 80 engineers.

◇ **Seminars and Tutorials at Conferences:**

Linked Data Query Processing (with Olaf Hartig). *30th IEEE International Conference on Data Engineering*, April 2014, Chicago, Illinois (1.5 hours).

Distributed Data and Object Management. *International Conference on Extended Database Technology*, March 1996, Avignon, France (half-day).

Distributed Data and Object Management. *Fourth International Conference on Information and Knowledge Management*, November 29 – December 2 1995, Baltimore, MD, USA (half-day).

Transactions and Transaction Management in Object-Oriented Database Systems. *NATO Advanced Study Institute on Object-Oriented Database Systems*, August 6 – 15, 1993, Kusadasi, Turkey (half-day).

Distributed Data Management – Unsolved Problems and New Issues. *9th International Conference on Data Engineering*, April 19 – 23, 1993, Vienna, Austria (half-day).

Distributed Object Management. *1st International Conference on Information and Knowledge Management*, November 5 – 7, 1992, Baltimore, MD, USA (half-day).

Distributed Data Management – Unsolved Problems and New Issues. *8th International Conference on Data Engineering*, February 3 – 7, 1992, Tempe, AZ, USA (full-day).

Distributed Databases within the Enterprise. *CIPS (Canadian Information Processing Society) Edmonton .1 Conference*, October 21 – 24, 1991, Edmonton, Canada (half-day).

Distributed Data Management – Unsolved Problems and New Issues. *17th International Conference on Very Large Data Bases*, September 3 – 6, 1991, Barcelona, Spain (half-day).

Operating System Support for Distributed Database Systems: Architectures and Issues in Integration. *The 2nd IEEE Symposium on Parallel and Distributed Processing*, December 9 – 13, 1990, Dallas, TX, USA (full day).

Distributed Database Management Systems. *6th International Conference on Data Engineering*, February 5 – 9, 1990, Los Angeles, CA, USA (half day).

Reliable Distributed Software. *COMPCON Spring Conference*, February 28 – March 3, 1989, San Francisco, CA, USA (full day; with A. Elmagarmid).

Reliable Distributed Systems. *7th International Symposium on Reliable Distributed Systems*, October 10 – 12, 1988, Columbus, OH, USA (full day; with A. Elmagarmid).

Fault-Tolerant Distributed Software. *COMPCON Spring Conference*, March 1 – 4, 1988, San Francisco, CA, USA (full day; with A. Elmagarmid).

Distributed Database Operating Systems. *4th International Conference on Data Engineering*, February 1 – 5, 1988, Los Angeles, CA, USA (half-day).

◇ **Short Courses:**

Components of Modern Database Systems. VLDB Summer School, Tsinghua University, Beijing, China, 27 – 28 July 2015 (1.5 days, 9 hours).

Distributed Data and Object Management. Institute for Computer Research, University of Waterloo, Waterloo, Canada, 24 – 25 June 1999 (2 days, 12 hours).

Distributed Data and Object Management. University of Udine, Udine, Italy, 27 – 30 April 1998 (12 hours).

Principles of Distributed Databases. Technical University of Darmstadt, Darmstadt, Germany, 13 – 24 April 1998 (9 hours).

Special Issues in Advanced Data Management. University of Jyväskylä, Jyväskylä, Finland, 6 – 9 April 1998 (16 hours).

Distributed Object Management and Interoperability. Summer course at Ecole d.te CEA-EDF-INRIA, Chateau du Breau-sans-Nappe, France, 8 – 12 July 1996.

Distributed Data Management – Unsolved Problems and New Issues. Bull Worldwide Information Systems, Inc., March 29 – 31, 1993, Phoenix, Arizona.

Distributed Data Management – Unsolved Problems and New Issues. Bull Worldwide Information Systems, Inc., February 7, 1992, Phoenix, Arizona.

Distributed Data Management – Unsolved Problems and New Issues. Short course at Middle East Technical University, July 31, 1991, Ankara, Turkey (half-day).

Data Modeling. Seminar for the Alberta Cancer Board, September 11 – 13, 1989, Edmonton, Canada.

Advanced Course on Distributed Computing. Summer course at Instituto Tecnológico y de Estudios Superiores, Monterrey, Mexico, June 2 – 20, 1986.

◇ **Seminars for the Government of Alberta:**

Designed and presented eleven training courses for the Government of Alberta on the following topics: Local Area Network Concepts, Logical Data Modeling for DP Personnel, Micro-Mainframe Connectivity, and Distributed Data Processing.

◇ **UNIDO Seminars:**

Designed and conducted ten seminars under Special Service Agreement with UNIDO (United Nations Industrial Development Organization) on the following topics: Database Management Systems, Engineering Database Organization, Project Planning and Control Techniques, and Use of Computers in Production.

◇ **Keynotes and Distinguished Lectures:**

Web Data Management in RDF Age, IEEE International Conference on Big Data and Smart Computing (BigComp), Shanghai, China, 15-18 January 2018.

Web Data Management in RDF Age, IEEE International Conference on Distributed Computing Systems (ICDCS), Atlanta, USA, 5-8 June 2017.

Web Data Management in RDF Age, 20th International Database Engineering & Applications Symposium, Ottawa, Canada, 11-13 July 2016.

Web Data Management in RDF Age, University of Alberta, Department of Computer Science, 16 September 2015.

Web Data Management in RDF Age, 1st International Forum on Big Search, Malbourne, Australia, 31 May 2015.

Personal Reflections on Academic Research and Publishing, PhD Symposium, 40th Int. Conf. on Very Large Data Bases, Hangzhou, China, 1 September 2014.

gStore: A Graph-based SPARQL Query Engine, Korea Advanced Institute of Science and Technology, Department of Computer Science 30 September 2013.

Reflections on Academic Research and Publishing, ACM SIGMOD/PODS PhD Symposium, New York, 23 June 2013.

RDF Data Management, University of Pennsylvania, Department of Computer Science, 3 December 2012.

Internet Scale Data Distribution: Some Research Problems, University at Buffalo, The State University of New York, Department of Computer Science and Engineering, 28 April 2011.

Internet Scale Data Distribution: Some Research Problems, William Mong Distinguished Lecture, University of Hong Kong, Hong Kong, 13 December 2010.

Distributed XML Processing, Seventh International XML Database Symposium (XSym 2010), Singapore, 17 September 2010.

Distributed XML Processing, APWeb/WAIM 2009 – The Joint International Conferences on Asia-Pacific Web Conference (APWeb) and Web-Age Information Management (WAIM), Suzhou, China, 2-4 April 2009.

Internet-Scale Data Distribution: Some Research Problems, 12th East-European Conference on Advances in Databases and Information Systems (ADBIS), Pori, Finland, 5-9 September 2008.

Internet-Scale Data Distribution: Some Research Problems, IEEE International Conference on Distributed Computing Systems (ICDCS), Toronto, Canada, 25-29 June 2007.

Achievements and Remaining Challenges in Multimedia Data Modeling, 2nd IEEE International Workshop on Multimedia Databases and Data Management, Istanbul, Turkey, 15 April 2007.

Internet-Scale Data Distribution: Some Research Problems, 7th International Conference on Web Information Systems Engineering (WISE), Wuhan, China, 23-26 October 2006.

Query Processing and Optimization in Native XML Databases, Fourth International XML Database Symposium (XSym 2006), Seoul, Korea, 10-11 September 2006.

Sliding Window Query Processing over Data Streams, ETH Zürich, Department of Computer Science, Switzerland, 29 May 2006.

Query Processing and Optimization in Native XML Databases, University of Zürich, Department of Informatics, Switzerland, 20 April 2006.

Query Processing in Data Stream Systems, Joint Session of 11th International Workshop on Foundations of Models and Languages for Data and Objects - Query Languages and Query Processing, International Conference on Semantics of Networked World, and 2nd International Workshop on Pervasive Information Management, Munich, Germany, 30 March 2006.

Achievements and Remaining Challenges in Multimedia Data Modeling, 12th International Multimedia Modeling Conference, Beijing, China, 3-6 January 2006.

Similarity-based Search of Time Series and Trajectory Data, New England Database Society, Boston, USA, 20 May 2005.

Database Issues in Streaming Data, Queen. University, Kingston, Canada, 6 May 2004.

Database Issues in Stream Data Management, Middle East Technical University, Ankara, Turkey, 19 October 2003.

Querying Image Databases – DISIMA Approach, Case Western Reserve University, Cleveland, Ohio, 7 February 2002.

Distributed Data Management Issues in a Changing Environment, University of Tokyo; SIGMOD Japan Meeting, Tokyo, Japan, 2 December 2001.

Distributed Data Management Issues in a Changing Environment, International Workshop on Foundations of Models for Information Integration (FMII-2001), Viterbo, Italy, 16-18 September 2001.

Flexible Data Integration on the Internet: Current Trends and Issues, International Workshop on Information Integration on the Web: Technologies and Applications, Rio de Janeiro, Brazil, 9-11 April 2001.

Document Management Issues in E-Commerce, 11th International Workshop on Research Issues on Data Engineering (RIDE 2001), Heidelberg, Germany, 1-2 April 2001.

Database Support for Document and Multimedia Data, German Database Conference (BTW), Oldenburg, Germany, 7-9 March 2001.

Issues in Multimedia Data Management, International Database Engineering and Applications Symposium (IDEAS), Montreal, Canada, August 2-4, 1999.

Issues in Multimedia Data Management, 13e Journées de Bases de Données Avancées (BDA), Grenoble, France, September 9 – 12, 1997.

◇ **Other Invited Talks (since 2000):**

2018:

- *An Introduction to Graph Analytics Platforms*, Fudan University, School of Computing, Shanghai, China, 15 January 2018.
- *An Introduction to Graph Analytics Platforms*, East China Normal University, School of Data Science and Engineering, Shanghai, China, 18 January 2018.

2017:

- *Approaches to RDF Data Management and SPARQL Query Processing*, Inria & Laboratoire d'Informatique, de Robotique et de Microélectronique de Montpellier, Montpellier, France, 9 March 2017.
- *An Introduction to Graph Analytics Platforms*, 8th IEEE Conference on Big Knowledge, Hefei, China, 9–10 August 2017.

- *Web Data Management in the RDF Age*, Hefei University of Technology, Hefei, China, 11 August 2017.

2016:

- *Graph Analytics Platforms*, Huawei Strategy and Technology Workshop, Shenzhen, China, 18 May 2016.
- *Web Data Management in RDF Age*, North Carolina State University, Department of Computer Science, Raleigh, NC, 15 April 2016.
- *An Introduction to Graph Analytics Platforms*, Invited Talk at Spring School “Models, Systems, and Algorithms for Role-based Business Intelligence Applications”, Dagstuhl, Germany, 7 – 9 March 2016 (3 hour lecture).

2015:

- *An Overview of Graph Data Management and Analysis*, Croucher Advanced Study Institute: Frontiers in Big Graph Research, Hong Kong, 16–18 December 2015 (3 hour lecture).
- *An Overview of Graph Data Management and Analysis*, Australian Database Conference PhD School, Melbourne, Australia, 4 June 2015 (3 hour lecture).
- *Web Data Management in RDF Age*, University of Queensland, School of Information Technology and Electrical Engineering, Brisbane, Australia, 5 June 2015.

2014:

- *Web Data Management in RDF Age*, Polytechnic University of Hong Kong, 26 November 2014.
- *Web Data Management in RDF Age*, Multimedia Software Engineering Research Centre of City University of Hong Kong, Shenzhen, 26 November 2014.
- *An Experimental Comparison of Pregel-like Graph Processing Systems*, OPODIS Workshop, Paris, France, 30 September 2014.
- *Web Data Management in RDF Age*, Inria Saclay, France, 1 October 2014.
- *Personal Reflections on Academic Research and Publishing*, PhD Workshop, 40th Int. Conf. on Very Large Databases, 1 September 2014.
- *Web Data Management in RDF Age*, Modern Database Systems Summit, Tsinghua University, China, 29-31 August 2014.
- *Web Data Management in RDF Age*, Peking University, Institute of Computer Science & Technology, 29 August 2014.

2013:

- *gStore: A Graph-based SPARQL Query Engine*, SAP Labs Korea, 2 October 2013.
- *gStore: A Graph-based SPARQL Query Engine*, Seoul National University, 1 October 2013.
- *gStore: A Graph-based SPARQL Query Engine*, University of Tokyo, 12 March 2013.

2012:

- *RDF Data Management*, University of Manitoba, Department of Computer Science, 29 June 2012.
- *RDF Data Management*, University of Zürich, Department of Computer Science, 1 March 2012.
- *RDF Data Management*, Università degli Studi dell’Insubria, 8 February 2012.
- *RDF Data Management*, Politecnico di Milano, Department of Computer Science, 7 February 2012.
- *Internet-Scale Data Distribution: Some Research Problems*, University of Basel, Department of Mathematics and Computer Science, 19 January 2012.

- *RDF Data Management*, Technische Universität München, Fakultät für Informatik, 11 January 2012.
- *RDF Data Management*, Ludwig-Maximilians-Universität München, Institut für Informatik, 10 January 2012.

2011:

- *Some Results in Graph Data Management*, Humboldt University, Department of Computer Science, 12 December 2011.
- *Some Results in Graph Data Management*, Technical University of Dresden, Department of Computer Science, 8 December 2011.
- *Some Results in Graph Data Management*, EPFL, Faculty of Computer Science, 18 November 2011.
- *Some Results in Graph Data Management*, ETH Zürich, Department of Computer Science, Switzerland, 31 October 2011.

2010:

- *Distributed XML Processing*, Hong Kong University of Science and Technology, Hong Kong, 15 December 2010.
- *Distributed XML Processing*, Nanyang Technological University, Singapore, 10 December 2010.
- *Internet-Scale Data Distribution: Some Research Problems* Maltepe University, 28 May 2010, Istanbul, Turkey.

2006:

- *Sliding Window Query Processing over Data Streams*, Hong Kong University of Science and Technology, Department of Computer Science, China, 26 October 2006.
- *Sliding Window Query Processing over Data Streams*, National University of Singapore, School of Computing, Singapore, 20 October 2006.
- *Query Processing and Optimization in Native XML Databases*, National University of Singapore, School of Computing, Singapore, 6 October 2006.
- *Sliding Window Query Processing over Data Streams*, Université Paris Dauphine, Laboratoire d'Analyse et Modélisation de Systèmes pour l'Aide à la décision, 5 June 2006.
- *Sliding Window Query Processing over Data Streams*, Université de Nantes, Laboratoire d'Informatique de Nantes Atlantique, 1 June 2006.
- *Query Processing and Optimization in Native XML Databases*, Tsinghua University, Department of Computer Science, 10 January 2006.
- *Query Processing and Optimization in Native XML Databases*, Microsoft Research Asia, Beijing, China, 9 January 2006.

2005:

- *Update-Pattern-Aware Modeling and Processing of Continuous Queries*, National University of Singapore, School of Computing, 26 April 2005.
- *Similarity-based Search of Time Series and Trajectory Data*, University of Uppsala, Uppsala, Sweden, 2 February 2005.

2004:

- *Windowed Join Processing over Data Streams*, University of Vienna, Vienna, Austria, 23 April 2004.
- *A Succinct Physical Storage Scheme for Efficient Evaluation of XPath Queries in XML*, Arizona State University, Tempe, AZ, USA, 20 February 2004.

2003:

- *Database Issues in Stream Data Management*, University of Uppsala, Uppsala, Sweden, 11 October 2003.
- *Database Issues in Stream Data Management*, University of British Columbia, Vancouver, Canada, 24 July 2003.

2002:

- *XBench: A Family of XML Benchmarks*, CASCON Conference Workshop on XML Data Management, Toronto, Canada, 1 October 2002.
- *XBench: A Family of XML Benchmarks*, Workshop on Efficiency and Effectiveness of XML Tools and Techniques, Hong Kong, 19 August 2002.
- *Querying Image Databases – DISIMA Approach*, Ohio State University, Columbus, OH, USA, 22 April 2002.
- *Querying the Web – Question Answer Approach*, University of Maryland Baltimore County, Baltimore, MD, USA, 15 March 2002.
- *Querying the Web – Question Answer Approach*, Northwestern University, Evanston, IL, USA, 5 March 2002.
- *Querying the Web – Question Answer Approach*, Georgia Institute of Technology, Atlanta, GA, USA, 22 February 2002.
- *DISIMA Distributed Image Database System – Experiences and Reflections*, Technical University of Dresden, Dresden, Germany, 24 January 2002.

2000:

- *Evaluation of Client-Server Object DBMSs*, IBM CASCON Conference, Toronto, Canada, November 15, 2000.
- *Adaptive Distributed DBMS Architectures*, GMD-IPSI, Darmstadt, Germany, September 15, 2000.
- *An Interoperable Multimedia Catalog System for Electronic Commerce*, Third International Workshop on Technological Challenges of Electronic Commerce, Waterloo, Canada, 28-29 June 2000.

PUBLICATIONS

◊ **Authored/Co-authored Books:**

A1. M. Tamer Özsu and Patrick Valduriez. *Principles of Distributed Database Systems*. Springer, 3rd edition, 2011. Previous two editions of the book were published by Prentice-Hall in 1991 and 1999, respectively.

The book has been translated into:

- Portugese (second edition)
- Chinese (third edition), Tsinghua University Press, 2014.

A2. Lukasz Golab and M. Tamer Özsu. *Data Stream Systems*. Morgan & Claypool, 2010.

A3. M. Tamer Özsu. *Project Planning and Control Techniques*. Turkish Information Processing Society Press, 1986. (in Turkish).

◊ **Edited Books/Proceedings:**

B1. Ling Liu and M. Tamer Özsu, editors. *Encyclopedia of Database Systems*. Springer, 2009.

B2. Mario A. Nascimento, M. Tamer Özsu, Donald Kossmann, Renee J. Miller, Jose A. Blakeley, and K. Berni Schiefer, editors. *Proc. Thirtieth International Conference on Very Large Data Bases*. VLDB Endowment, 2004.

B3. Anne B. Pidduck, John Mylopoulos, Carson C. Woo, and M. Tamer Özsu, editors. *Advanced Information Systems Engineering – Proc. 14th International Conference (CAiSE 2002)*, Lecture Notes in Computer Science 2348. Springer, 2002.

B4. Mario Nascimento, M. Tamer Özsu, and Osmar Zaiane, editors. *Proc. International Database Engineering & Applications Symposium*. IEEE Computer Society, 2002.

- B5. M. Tamer Özsu, Hans-Jörg Schek, Katsumi Tanaka, Yanchun Zhang, and Yahiko Kambayashi, editors. *Proc. 2nd International Conference on Web Information Systems Engineering*. IEEE Computer Society, 2001.
 - B6. Asuman Dogac, M. Tamer Özsu, and Ozgur Ulusoy, editors. *Current Trends in Data Management Technology*. Idea Group Publishers, 1999.
 - B7. Sushil Jajodia, M. Tamer Özsu, and Asuman Dogac, editors. *Advances in Multimedia Information Systems - Proceedings of the 4th International Workshop on Multimedia Information Systems*, Lecture Notes in Computer Science 1508. Springer, 1998.
 - B8. Asuman Dogac, L. Kalinichenko, M. Tamer Özsu, and Amit P. Sheth, editors. *Advances in Workflow Systems and Interoperability*. Springer, 1998.
 - B9. A. Dogac, M. T. Özsu, A. Biliris, and T. Sellis, editors. *Advances in Object-Oriented Database Systems*. Springer, 1994.
 - B10. M. Tamer Özsu, Umeshwar Dayal, and Patrick Valduriez, editors. *Distributed Object Management*. Morgan Kaufmann, 1994.
 - B11. O. Bukhres, M. Tamer Özsu, and M.C. Shan, editors. *Proc. RIDE'95 Workshop on Distributed Object Management*. IEEE Computer Society, 1985.
 - B12. M. Tamer Özsu and J. Schaeffer, editors. *Proc. CIPS (Canadian Information Processing Society) Edmonton '86 Conf.*, 1986.
- ◊ **Chapters in Books:**
- C1. M. Tamer Özsu and Patrick Valduriez. Distributed and parallel database systems. In Heikki Topi and Allen B. Tucker, editors, *Computing Handbook*, volume 2: Information Systems and Information Technology of *Computing Handbook Set*. CRC Press, 3rd edition, 2014.
 - C2. Ning Zhang and M. Tamer Özsu. XML native storage and query processing. In C. Li and T. W. Ling, editors, *Advanced Applications and Structures in XML Processing: Label Streams, Semantics Utilization and Data Query Technologies*, chapter 1, pages 1–17. IGI Global, 2010.
 - C3. M. Tamer Özsu and Patrick Valduriez. Distributed and parallel database systems. In Allen B. Tucker, editor, *Handbook of Computer Science and Engineering*, chapter 58. CRC Press, 2nd edition, 2004.
 - C4. M. Tamer Özsu. Distributed database systems. In H. Bigdoli, editor, *Encyclopedia of Information Systems*, pages 673–682. Academic Press, 2002.
 - C5. M. Tamer Özsu and Bin Yao. Building component database systems using CORBA. In Klaus Dittrich and Andreas Geppert, editors, *Component Database Systems*, pages 207–236. Morgan Kaufmann, 2001.
 - C6. Iqbal Goralwalla, M. Tamer Özsu, and Duane Szafron. An object-oriented framework for temporal data models. In Opher Etzion, Sushil Jajodia, and S. Sripada, editors, *Temporal Databases: Research and Practice*, pages 1–35. Morgan Kaufmann, 1998.
 - C7. Ling Liu, Lingling Yan, and M. Tamer Özsu. Interoperability in large-scale distributed information delivery systems. In Asuman Dogac, Leonid Kalinichenko, M. Tamer Özsu, and Amit P. Sheth, editors, *Advances in Workflow Systems and Interoperability*, pages 246–280. Springer, 1998.
 - C8. M. Tamer Özsu and Patrick Valduriez. Distributed and parallel database systems. In Allen B. Tucker, editor, *Handbook of Computer Science and Engineering*, pages 1093–1111. CRC Press, 1997.
 - C9. M. Tamer Özsu. Transaction models and transaction management in object-oriented database management systems. In A. Doğaç, M.T. Özsu, A. Biliris, and T. Sellis, editors, *Advances in Object-Oriented Database Systems*, pages 147–184. Springer, 1994.
 - C10. M. Tamer Özsu, Umeshwar Dayal, and Patrick Valduriez. An introduction to distributed object management. In M. Tamer Özsu, Umeshwar Dayal, and Patrick Valduriez, editors, *Distributed Object Management*, pages 1–24. Morgan Kaufmann, 1994.

- C11. M. T. Özsu and J. Blakeley. Query processing in object-oriented database systems. In W. Kim, editor, *Modern Database Management – Object-Oriented and Multidatabase Technologies*, pages 146–174. Addison-Wesley/ACM Press, 1994
- C12. M. Tamer Özsu, Dave D. Straube, and R. Peters. Query processing issues in object-oriented knowledge base systems. In F.E. Petry and L.M. Delcambre, editors, *Intelligent Database Technology: Approaches and Applications*, volume 1, pages 79–144. JAI Press, 1994.
- C13. M. T. Özsu and P. Valduriez. Distributed data management: Unsolved problems and new issues. In T. Casavant and M. Singhal, editors, *Readings in Distributed Computing Systems*, pages 512–544. IEEE/CS Press, 1994.
- C14. A. Buchmann, M. Tamer Özsu, M. Hornick, Dimitrios Georgakopoulos, and F.A. Manola. A transaction model for active distributed object systems. In Ahmed K. Elmagarmid, editor, *Transaction Models for Advanced Database Applications*, pages 123–158. Morgan Kaufmann, 1992.
- ◊ **Refereed Journal Papers:**
- D1. Siddhartha Sahu, Amine Mhedhbi, Semih Salihoglu, Jimmy Lin, and M. Tamer Özsu. The ubiquity of large graphs and surprising challenges of graph processing. *Proc. VLDB Endowment*, 11(4):420–431, 2018.
- D2. Yuke Yang, Lukasz Golab, and M. Tamer Özsu. ViewDF: Declarative incremental view maintenance for streaming data. *Information Systems*, 71:55 – 67, 2017.
- D3. Lei Zou and M. Tamer Özsu. Graph-based RDF data management. *Data Science and Engineering*, 2(1):56–70, 2017.
- D4. Da Yan, James Cheng, M. Tamer Özsu, Fan Yang, Yi Lu, John C.S. Liu, Qizhen Zhang, and Wilfred Ng. A general-purpose query-centric framework for querying big graphs. *Proc. VLDB Endowment*, 9(7):564 – 575, 2016.
- D5. Peng Peng, Lei Zou, M. Tamer Özsu, Lei Chen, and Dongyan Zhao. Processing SPARQL queries over distributed RDF graphs. *VLDB J.*, 25(2):243–268, 2016.
- D6. Cagri Balkesen, Jens Teubner, Gustavo Alonso, and M. Tamer Özsu. Main-memory hash joins on modern processor architectures. *IEEE Trans. Knowl. and Data Eng.*, 27(7):1754–1766, 2015.
- D7. Minyang Han, Khuzaima Daudjee, Khaled Ammar, M. Tamer Özsu, Xingfang Wang, and Tianqi Jin. An experimental comparison of pregel-like graph processing systems. *Proc. VLDB Endowment*, 7(12):1047–1058, 2014.
- D8. Prima Chairunnanda, Khuzaima Daudjee, and M. Tamer Özsu. ConfluxDB: multi-master replication for partitioned snapshot isolation databases. *Proc. VLDB Endowment*, 7(11):947–958, 2014.
- D9. Lei Zou, M. Tamer Özsu, Lei Chen, Xuchuan Shen, Ruizhe Huang, and Dongyan Zhao. gStore: A graph-based SPARQL query engine. *VLDB J.*, 23(4):565–590, 2014.
- D10. Güneş Aluç, M. Tamer Özsu, and Khuzaima Daudjee. Workload matters: Why RDF databases need a new design. *Proc. VLDB Endowment*, 7(10):837–840, 2014.
- D11. Çagri Balkesen, Gustavo Alonso, Jens Teubner, and M. Tamer Özsu. Multi-core, main-memory joins: Sort vs. hash revisited. *Proc. VLDB Endowment*, 7(1):85–96, 2013.
- D12. Feng Li, Beng Chin Ooi, M. Tamer Özsu, and Sai Wu. Distributed data management using MapReduce. *ACM Comput. Surv.*, 46(3):Article No. 31, 2014.
- D13. Tao Chen, Lei Chen, M. Tamer Özsu, and Nong Xiao. Optimizing multi-top-k queries over uncertain data streams. *IEEE Trans. Knowl. and Data Eng.*, 25(8):1814–1829, 2013.
- D14. Lei Zou, Lei Chen, M. Tamer Özsu, and Dongyan Zhao. Answering pattern match queries in large graph databases via graph embedding. *VLDB J.*, 21(1):97–120, 2012.

- D15. Raymond Chi-Wing Wong, M. Tamer Özsu, Ada Wai-Chee Fu, Philip S. Yu, Lian Liu, and Yubao Liu. Maximizing bichromatic reverse nearest neighbor for L_p -norm in two- and three-dimensional spaces. *VLDB J.*, 20(6):893–919, ember 2011.
- D16. Patrick Kling, M. Tamer Özsu, and Khuzaima Daudjee. Scaling XML query processing: Distribution, localization and pruning. *Distrib. Parall. Databases*, 29(5-6):445–490, 2011.
- D17. Gang Chen, Hoang Tam Vo, Sai Wu, Beng Chin Ooi, and M. Tamer Özsu. A framework for supporting DBMS-like indexes in the cloud. *Proc. VLDB Endowment*, 4(11):702–713, 2011.
- D18. Lei Zou, Jinghui Mo, Lei Chen, M. Tamer Özsu, and Dongyan Zhao. gStore: answering SPARQL queries via subgraph matching. *Proc. VLDB Endowment*, 4(8):482–493, 2011.
- D19. Patrick Kling, M. Tamer Özsu, and Khuzaima Daudjee. Generating efficient execution plans for vertically partitioned XML databases. *Proc. VLDB Endowment*, 4(1):1–11, 2010.
- D20. Eric Lo, Carsten Binnig, Donald Kossmann, M. Tamer Özsu, and Wing-Kai Ho. A framework for testing DBMS features. *VLDB J.*, 19(2):203–230, 2010.
- D21. Raymond Chi-Wing Wong, M. Tamer Özsu, Philip S. Yu, Ada Wai-Chee Fu, and Lian Liu. Efficient method for maximizing bichromatic reverse nearest neighbor. *Proc. VLDB Endowment*, 2(1):1126–1137, 2009.
- D22. Lei Zou, Lei Chen, and M. Tamer Özsu. k-automorphism: a general framework for privacy preserving network publication. *Proc. VLDB Endowment*, 2(1):946–957, 2009.
- D23. Lei Zou, Lei Chen, and M. Tamer Özsu. Distance-join: pattern match query in a large graph database. *Proc. VLDB Endowment*, 2(1):886–897, 2009.
- D24. Qian Wan, Raymond Chi-Wing Wong, Ihab F. Ilyas, M. Tamer Özsu, and Yu Peng. Creating competitive products. *Proc. VLDB Endowment*, 2(1):898–909, 2009.
- D25. Qiang Wang, Khuzaima Daudjee, and M. Tamer Özsu. Popularity-aware prefetch in P2P range caching. *Peer-to-Peer Networking and Applications*, 3(2):145–160, 2010.
- D26. Yingguang Li, M. Tamer Özsu, and Kian-Lee Tan. XCube: Processing XPath queries in a hypercube overlay network. *Peer-to-Peer Networking and Applications*, 2(2):128–145, 2009.
- D27. Christian Plattner, Gustavo Alonso, and M. Tamer Özsu. Extending DBMSs with satellite databases. *VLDB J.*, 17:657–682, 2008.
- D28. Ilaria Bartolini, Paula Ciaccia, Vincent Oria, and M. Tamer Özsu. Flexible integration of multimedia sub-queries with qualitative preferences. *Multimedia Tools & Applications*, 33(3):275–300, 2007.
- D29. M. Hossein Sheikh Attar and M. Tamer Özsu. Alternative architectures and protocols for providing strong consistency in dynamic web applications. *World Wide Web J.*, 9(3):215–251, 2006.
- D30. Dunren Che, Karl Aberer, and M. Tamer Özsu. Query optimization in XML structured-document databases. *VLDB J.*, 15(3):263–289, 2006.
- D31. Jie Lian, Kshirasagar Naik, Gordon B. Agnew, Lei Chen, and M. Tamer Özsu. BBS: an energy-efficient localized routing scheme for query processing in wireless sensor network. *Int. J. of Distributed Sensor Networks*, 2(1):23–54, 2006.
- D32. Şule Gündüz-Öğüdücü and M. Tamer Özsu. Incremental click-stream tree model: Learning from new users for web page prediction. *Distrib. Parall. Databases*, 19(1):5–27, 2006.
- D33. Esther Pacitti, Cédric Coulon, Patrick Valduriez, and M. Tamer Özsu. Preventive replication in a database cluster. *Distrib. Parall. Databases*, 18(3):223–251, 2005.
- D34. Vincent Oria, M. Tamer Özsu, and Paul Iglinski. Foundation of the DISIMA image query languages. *Multimedia Tools & Applications*, 23(3):185–201, 2004.

- D35. Lei Chen, M. Tamer Özsu, and Vincent Oria. MINDEX: An efficient index structure for salient-object-based queries in video databases. *Multimedia Syst.*, 10(1):56–71, 2004.
- D36. Kaladhar Voruganti, M. Tamer Özsu, and Ronald C. Unrau. An adaptive data-shipping architecture for client caching data management systems. *Distrib. Paralle. Databases*, 15(2):137–177, 2004.
- D37. Vincent Oria and M. Tamer Özsu. Views or points of view on images. *Int. J. Image Graphics*, 3(1):55–80, 2003.
- D38. Lukasz Golab and M. Tamer Özsu. Issues in data stream management. *ACM SIGMOD Rec.*, 32(2):5–14, 2003 (lightly refereed).
- D39. Yuri Leontiev, M. Tamer Özsu, and Duane Szafron. On type systems for object-oriented database programming languages. *ACM Comput. Surv.*, 34(4):409–449, 2002.
- D40. L. Y. Cao and M. Tamer Özsu. Evaluation of strong consistency web caching techniques. *World Wide Web J.*, 5(2):95–124, 2002.
- D41. Iqbal A. Goralwalla, Yuri Leontiev, M. Tamer Özsu, Duane Szafron, and Carlo Combi. Temporal granularity: Completing the puzzle. *J. Intell. Information Syst.*, 16(1):41–63, 2001.
- D42. Iqbal A. Goralwalla, Duane Szafron, M. Tamer Özsu, and Randal J. Peters. A temporal approach to managing schema evolution in object database systems. *Data & Knowl. Eng.*, 28(1):73–105, 1998.
- D43. Asuman Dogac, Cevdet Dengi, and M. Tamer Özsu. Distributed object computing platforms. *Commun. ACM*, 41(9):95–103, 1998.
- D44. Johnny W. Wong, Kelly A. Lyons, David Evans, Rolf J. Velthuys, Gregor von Bochmann, Eric Dubois, Nicolas D. Georganas, Gerald W. Neufeld, M. Tamer Özsu, Jeff Brinskelle, Abdelhakim Hafid, Norman C. Hutchinson, Paul Iglinski, Brigitte Kerhervé, Louise Lamont, Dwight J. Makaroff, and Duane Szafron. Enabling technology for distributed multimedia applications. *IBM Systems J.*, 36(4):489–507, 1997.
- D45. Randal J. Peters and M. Tamer Özsu. An axiomatic model of dynamic schema evolution in objectbase systems. *ACM Trans. Database Syst.*, 22(1):75–114, 1997.
- D46. Iqbal Goralwalla, M. Tamer Özsu, and Duane Szafron. Modeling medical trials in pharmacoeconomics using a temporal object model. *Computers in Biology and Medicine – Special Issue on Time Oriented Systems in Medicine*, 27(5):369–387, 1997.
- D47. M. Tamer Özsu and Patrick Valduriez. Distributed and parallel database systems. *ACM Comput. Surv.*, 28(1):125–128, 1996.
- D48. M. Tamer Özsu, Duane Szafron, Ghada El-Medani, and Chiradeep Vittal. An object-oriented multimedia database system for a news-on-demand applications. *Multimedia Syst.*, 3(5-6):182–203, 1995.
- D49. M. Tamer Özsu, Randal G. Peters, Boman Irani, Anna Lipka, Adriana Munoz, and Duane Szafron. TIGUKAT: A uniform behavioral objectbase management system. *VLDB J.*, 4(3):445–492, 1995.
- D50. Dave D. Straube and M. Tamer Özsu. Query optimization and execution plan generation in object-oriented data management systems. *IEEE Trans. Knowl. and Data Eng.*, 7(2):210–227, April 1995.
- D51. M. Tamer Özsu and Dave D. Straube. Issues in query model design in object-oriented database systems. *Comp. Standards & Interfaces*, 13:157–167, 1991.
- D52. M. T. Özsu and P. Valduriez. Distributed database systems: Where are we now? *Computer*, 24(8):68–78, 1991. Also appears in *Database Programming & Design*, March 1992 and April 1992 issues.
- D53. D.D. Straube and M. T. Özsu. Queries and query processing in object-oriented database systems. *ACM Trans. Information Syst.*, 8(4):387–430, 1990.

- D54. M. Tamer Özsu and D.J. Meechan. Join processing heuristics in relational database systems. *Inf. Syst.*, 15(4):429–444, 1990.
- D55. M. Tamer Özsu and D.J. Meechan. Finding heuristics for processing selection queries in relational database systems. *Inf. Syst.*, 15(3):359–373, 1990.
- D56. A. A. Farrag and M. T. Özsu. Using semantic knowledge of transactions to increase concurrency. *ACM Trans. Database Syst.*, 14(4):503–525, 1989.
- D57. M. Tamer Özsu, Kok-Lung Wong, and Tse-Men Koon. System modeling and analysis using petri nets. *Journal Systems Analysis – Modeling – Simulation*, 5(1):3–25, 1988.
- D58. A. A. Farrag and M. T. Özsu. Towards a general concurrency control algorithm for database systems. *IEEE Trans. Softw. Eng.*, 13(10):1073–1079, 1987.
- D59. M. Tamer Özsu. Modeling and analysis of distributed database concurrency control algorithm using an extended petri net formalism. *IEEE Trans. Softw. Eng.*, SE-11(10):1225–1240, October 1985.

◊ **Refereed Conference/Symposium/Workshop Papers:**

- E1. Anil Pacaci, Alice Zhou, Jimmy Lin, and M. Tamer Özsu. Do we need specialized graph databases?: Benchmarking real-time social networking applications. In *Proc. 5th Int. Workshop on Graph Data Management Experiences and Systems*, pages 12:1–12:7, 2017.
- E2. Olaf Hartig and M. Tamer Özsu. Walking without a map: Ranking-based traversal for querying linked data. In *Proc. 15th Int. Semantic Web Conf.*, pages 305–324, 2016.
- E3. Yuke Yang, Lukasz Golab, and M. Tamer Özsu. ViewDF: declarative incremental view maintenance for streaming data. In *Enabling Real-Time Business Intelligence, Proc. BIRTE Workshop*, 2015
- E4. Güneş Aluç, M. Tamer Özsu, Khuzaima Daudjee, and Olaf Hartig. Executing queries over schemaless RDF databases. In *Proc. 31st Int. Conf. on Data Engineering*, pages 807–818, 2015.
- E5. Bojana Bislimovska, Güneş Aluç, M. Tamer Özsu, and Piero Fraternali. Graph search of software models using multidimensional scaling. In *Proc. EDBT Workshops*, pages 163–170, 2015.
- E6. Güneş Aluç, Olaf Hartig, M. Tamer Özsu, and Khuzaima Daudjee. Diversified stress testing of RDF data management systems. In *Proc. 13th Int. Semantic Web Conf.*, pages 197–212, 2014.
- E7. Olaf Hartig and M. Tamer Özsu. Reachable subwebs for traversal-based query execution. In *Proc. 23rd Int. World Wide Web Conf. (Companion Volume)*, pages 541–546, 2014.
- E8. Feng Li, M. Tamer Özsu, Gang Chen, and Beng-Chin Ooi. R-Store: A scalable distributed system for supporting real-time analytics. In *Proc. 30th Int. Conf. on Data Engineering*, pages 40–51, 2014.
- E9. Çagri Balkesen, Nesime Tatbul, and M. Tamer Özsu. Adaptive input admission and management for parallel stream processing. In *Proc. 7th Int. Conf. Distributed Event-Based Systems*, pages 15–26, 2013.
- E10. Çagri Balkesen, Jens Teubner, Gustavo Alonso, and M. Tamer Özsu. Main-memory hash joins on multi-core CPUs: Tuning to the underlying hardware. In *Proc. 29th Int. Conf. on Data Engineering*, pages 362–373, 2013. (Best Paper Honorable Mention)
- E11. James Cheng, Yiping Ke, Shumo Chu, and M. Tamer Özsu. Efficient core decomposition in massive networks. In *Proc. 27th Int. Conf. on Data Engineering*, pages 51–62, 2011.
- E12. Lei Zou, Lei Chen, M. Tamer Özsu, and Dongyan Zhao. Dynamic skyline queries in large graphs. In *Proc. 15th Int. Conf. on Database Systems for Advanced Applications*, pages 62–78, 2010.

- E13. Yingying Tao and M. Tamer Özsu. Efficient decision tree construction for mining time-varying data streams. In *Proc. Conf. of the IBM Centre for Advanced Studies on Collaborative Research*, 2009.
- E14. Yingying Tao and M. Tamer Özsu. Mining frequent itemsets in time-varying data streams. In *Proc. 18th ACM Int. Conf. on Information and Knowledge Management*, pages 1521–1524, 2009. (Short paper).
- E15. Yingying Tao and M. Tamer Özsu. Mining data streams with periodically changing distributions. In *Proc. 18th ACM Int. Conf. on Information and Knowledge Management*, pages 887–896, 2009.
- E16. Umar Qasim, Vincent Oria, Yi-Fang Brook Wu, Michael E. Houle, and M. Tamer Özsu. A partial order based active cache for recommender systems. In *Proc. 3rd ACM Conf. on Recommender Systems*, pages 209–212, 2009.
- E17. Qiang Wang, Rui Li, Lei Chen, Jie Lian, and M. Tamer Özsu. Speed up semantic search in P2P networks. In *Proc. 17th ACM Int. Conf. on Information and Knowledge Management*, pages 1341 – 1342, 2008. (Poster paper).
- E18. Qiang Wang, Khuzaima Daudjee, and M. Tamer Özsu. Popularity-aware prefetch in P2P range caching. In *Proc. 8th IEEE Int. Conf. on Peer-to-Peer Computing*, pages 53–62, 2008.
- E19. Weihang Wang, Shimin Guo, Mohamed A. Sharaf, and M. Tamer Özsu. Potential-driven load distribution for distributed data stream processing. In *Proc. 2nd Int. Workshop on Scalable Stream Processing Systems*, pages 13 – 22, 2008.
- E20. Nan Tang, J.X. Yu, M.T. Ozsu, Byron Choi, and Kam-Fai Wong. Multiple materialized view selection for xpath query rewriting. In *Proc. 24th Int. Conf. on Data Engineering*, pages 873 –882, 2008.
- E21. Nan Tang, J.X. Yu, M.T. Ozsu, and Kam-Fai Wong. Hierarchical indexing approach to support xpath queries. In *Proc. 24th Int. Conf. on Data Engineering*, pages 1510 –1512, 2008.
- E22. Qiang Wang and M. Tamer Özsu. An efficient Eigenvalue-based P2P XML routing framework. In *Proc. 7th IEEE Int. Conf. on Peer-to-Peer Computing*, pages 105–112, 2007.
- E23. Xiaoyan Yang, Hock Beng Lim, M. Tamer Özsu, and Kian Lee Tan. In-network execution of monitoring queries in sensor networks. In *Proc. ACM SIGMOD Int. Conf. on Management of Data*, pages 521–532, 2007.
- E24. Carsten Binnig, Donald Kossmann, Eric Lo, and M. Tamer Özsu. QAGen: Generating query-aware test databases. In *Proc. ACM SIGMOD Int. Conf. on Management of Data*, pages 341–352, 2007.
- E25. Bo Chen, Tok Wang Lin, M. Tamer Özsu, and Zhenzhou Zhu. On label stream partition for efficient holistic twig join. In *Proc. 12th Int. Conf. on Database Systems for Advanced Applications*, pages 807–818, 2007.
- E26. Christian Plattner, Gustavo Alonso, and M. Tamer Özsu. DBFarm: A scalable cluster for multiple databases. In *Proc. ACM/IFIP/USENIX 7th Int. Middleware Conf.*, pages 180–200, 2006.
- E27. Lukasz Golab, Kumar Gaurav Bijay, and M. Tamer Özsu. Multi-query optimization of sliding window aggregates by schedule synchronization. In *Proc. 15th ACM Int. Conf. on Information and Knowledge Management*, pages 844–845, 2006.
- E28. Ning Zhang, M. Tamer Özsu, Ihab F. Ilyas, and Ashraf Aboulnaga. FIX: feature-based indexing technique for XML documents. In *Proc. 32nd Int. Conf. on Very Large Data Bases*, pages 259–270, 2006.
- E29. Lei Chen, Şule Gündüz-Öğüdücü, and M. Tamer Özsu. Mixed type audio classification with support vector machine. In *Proc. IEEE Int. Conf. on Multimedia and Expo*, pages 781–784, 2006.

- E30. Lukasz Golab, Piyush Prahadka, and M. Tamer Özsu. Indexing time-evolving data with variable lifetimes. In *Proc. 18th Int. Conf. on Scientific and Statistical Database Management*, pages 265–274, 2006.
- E31. Derek Phillips, Ning Zhang, Ihab F. Ilyas, and M. Tamer Özsu. InterJoin: Exploiting indexes and materialized views in XPath evaluation. In *Proc. 18th Int. Conf. on Scientific and Statistical Database Management*, pages 13–22, 2006.
- E32. Qiang Wang and M. Tamer Özsu. An XML routing synopsis for unstructured P2P networks. In *Proc. 7th Int. Conf. on Web-Age Information Management Workshops*, pages 176–183, 2006.
- E33. Ning Zhang, M. Tamer Özsu, Ashraf Aboulnaga, and Ihab F. Ilyas. XSEED: Accurate and fast cardinality estimation for XPath queries. In *Proc. 22nd Int. Conf. on Data Engineering*, page 61, 2006.
- E34. Lukasz Golab, Kumar Gaurav Bijay, and M. Tamer Özsu. On concurrency control in sliding window queries over data streams. In *Advances in Database Technology, Proc. 10th Int. Conf. on Extending Database Technology*, pages 608–626, 2006.
- E35. Jie Lian, Lei Chen, Kshirasagar Naik, M. Tamer Özsu, and Gordon B. Agnew. Localized routing trees for query processing in sensor networks. In *Proc. 14th ACM Int. Conf. on Information and Knowledge Management*, pages 259–260, 2005.
- E36. Lei Chen, M. Tamer Özsu, and Vincent Oria. Using multi-scale histograms to answer pattern existence and shape match queries. In *Proc. 17th Int. Conf. on Scientific and Statistical Database Management*, pages 217–226, 2005.
- E37. Lei Chen, M. Tamer Özsu, and Vincent Oria. Robust and fast similarity search for moving object trajectories. In *Proc. ACM SIGMOD Int. Conf. on Management of Data*, pages 491–502, 2005. (Winner of Test of Time Award at SIGMOD 2015).
- E38. Lukasz Golab and M. Tamer Özsu. Update-pattern-aware modeling and processing of continuous queries. In *Proc. ACM SIGMOD Int. Conf. on Management of Data*, pages 658–669, 2005.
- E39. Ning Zhang, Shishir Agrawal, and M. Tamer Özsu. BlossomTree: Evaluating XPath in FLWOR expressions. In *Proc. 21st Int. Conf. on Data Engineering*, pages 388–389, 2005.
- E40. Lei Chen, M. Tamer Özsu, and Vincent Oria. Symbolic representation and retrieval of moving object trajectories. In *Proc. 6th ACM SIGMM Int. Workshop on Multimedia Information Retrieval*, pages 227–234, 2004.
- E41. Ilaria Bartolini, Paolo Ciaccia, Vincent Oria, and M. Tamer Özsu. Integrating the results of multimedia sub-queries using qualitative preferences. In *Proc. Int. Workshop on Multimedia Information Systems*, pages 66–75, 2004.
- E42. Lukasz Golab, Shaveen Garg, and M. Tamer Özsu. On indexing sliding windows over online data streams. In *Advances in Database Technology, Proc. 9th Int. Conf. on Extending Database Technology*, pages 712–729, 2004.
- E43. Ning Zhang, Varun Kacholia, and M. Tamer Özsu. A succinct physical storage scheme for efficient evaluation of path queries in XML. In *Proc. 20th Int. Conf. on Data Engineering*, pages 54–65, 2004.
- E44. Benjamin Bin Yao, M. Tamer Özsu, and Nitin Khandelwal. XBench benchmark and performance testing of XML DBMSs. In *Proc. 20th Int. Conf. on Data Engineering*, pages 621–633, 2004.
- E45. Lei Chen and M. Tamer Özsu. Multi-scale histograms for answering queries over time series data. In *Proc. 20th Int. Conf. on Data Engineering*, page 838, 2004.
- E46. Lukasz Golab and M. Tamer Özsu. Processing sliding window multi-joins in continuous queries over data streams. In *Proc. 29th Int. Conf. on Very Large Data Bases*, pages 500–511, 2003.

- E47. Şule Gündüz and M. Tamer Özsu. A poisson model for user accesses to web pages. In *Proc. 18th Int. Symp. on Computer and Information Science*, pages 332–339, 2003.
- E48. Esther Pacitti, M. Tamer Özsu, and Cédric Coulon. Preventive multi-master replication in a cluster of autonomous databases. In *Proc. 9th Int. Euro-Par Conf.*, pages 318–327, 2003.
- E49. Şule Gündüz and M. Tamer Özsu. A user interest model for web page navigation. In *Proc. Int. Workshop on Data Mining for Actionable Knowledge*, pages 46–57, 2003.
- E50. David DeHaan, David Toman, Mariano P. Consens, and M. Tamer Özsu. A comprehensive XQuery to SQL translation using dynamic interval encoding. In *Proc. ACM SIGMOD Int. Conf. on Management of Data*, pages 623–634, 2003.
- E51. Şule Gündüz and M. Tamer Özsu. A Web page prediction model based on click-stream tree representation of user behavior. In *Proc. 9th ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining*, pages 535–540, 2003.
- E52. Lei Chen, Sharig J. Rizvi, and M. Tamer Özsu. Incorporating audio cues into dialog and action scene extraction. In *Proc. SPIE Conf. on Storage and Retrieval for Media Databases*, pages 252–264, 2003.
- E53. Lei Chen, M. Tamer Özsu, and Vincent Oria. Modeling video data for content based queries: Extending the DISIMA image data model. In *Proc. 9th Int. Conf. on Multimedia Modeling*, pages 169–189, 2003.
- E54. Sunny K. S. Lam and M. Tamer Özsu. Querying web data - the WebQA approach. In *Proc. 3rd Int. Conf. on Web Information Systems Eng.*, pages 139–148, 2002.
- E55. Lei Chen, Vincent Oria, and M. Tamer Özsu. A multi-level index structure for video databases. In *Proc. Int. Workshop on Multimedia Information Systems*, pages 28–37, 2002.
- E56. Lei Chen and M. Tamer Özsu. Rule-based scene extraction from video. In *Proc. IEEE Int. Conf. on Image Processing*, pages 737–740, 2002.
- E57. Lei Chen and M. Tamer Özsu. Modeling of video objects in a video database. In *Proc. IEEE Int. Conf. on Multimedia and Expo*, pages 217–221, 2002.
- E58. Vincent Oria, M. Tamer Özsu, and Paul Iglinski. Querying images in the DISIMA DBMS. In *Proc. Int. Workshop on Multimedia Information Systems*, pages 89–98, 2001.
- E59. Vincent Oria, M. Tamer Özsu, Shu Lin, and Paul Iglinski. Similarity queries in the DISIMA image DBMS. In *Proc. 9th ACM Int. Conf. on Multimedia*, pages 475–478, 2001.
- E60. Shu Lin, M. Tamer Özsu, Vincent Oria, and Raymond T. Ng. An extendible hash for multi-precision similarity querying of image databases. In *Proc. 27th Int. Conf. on Very Large Data Bases*, pages 221–230, 2001.
- E61. Silvia Hollfelder, Vincent Oria, and M. Tamer Özsu. Mining user behavior for resource prediction in interactive electronic malls. In *Proc. IEEE Int. Conf. on Multimedia and Expo*, pages 863–866, 2000.
- E62. Vincent Oria, M. Tamer Özsu, L. Irene Cheng, Paul Iglinski, and Yuri Leontiev. Modeling and querying shapes in an image database system. In *Proc. Int. Workshop on Multimedia Information Systems*, pages 34–40, 1999.
- E63. Kaladhar Voruganti, M. Tamer Özsu, and Ronald C. Unrau. An adaptive hybrid server architecture for client caching ODBMSs. In *Proc. 25th Int. Conf. on Very Large Data Bases*, pages 150–161, 1999.
- E64. Ling-Ling Yan and M. Tamer Özsu. Conflict tolerant queries in aurora. In *Proc. Int. Conf. on Cooperative Inf. Syst.*, pages 279–290, 1999.
- E65. Vincent Oria, M. Tamer Özsu, Bing Xu, L. Irene Cheng, and Paul Iglinski. VisualMOQL: the DISIMA visual query language. In *Proc. Int. Conf. on Multimedia Computing and Systems*, pages 536–542, 1999.

- E66. Youping Niu, M. Tamer Özsu, and Xiaobo Li. 2-D-S Tree: An index structure for content-based retrieval of images. In *Proc. SPIE Conf. on Multimedia Computing and Networking*, pages 110–121, 1999.
- E67. Vincent Oria, M. Tamer Özsu, Duane Szafron, and Paul Iglinski. Defining views in an image database system. In *Proc. 8th IFIP 2.6 Working Conf. on Data Semantics: Semantics Issues in Multimedia*, pages 231–250, 1999.
- E68. Iqbal A. Goralwalla, Yuri Leontiev, M. Tamer Özsu, Duane Szafron, and Carlo Combi. Temporal granularity for unanchored temporal data. In *Proc. 7th Int. Conf. on Information and Knowledge Management*, pages 414–423, 1998.
- E69. M. T. Özsu, K. Voruganti, and R. Unrau. An asynchronous avoidance-based cache consistency algorithm for client caching dbms. In *Proc. 24th Int. Conf. on Very Large Data Bases*, pages 440–451, 1998.
- E70. Vincent Oria, Bing Xu, and M. Tamer Özsu. VisualMOQL: A visual query language for image databases. In *Proc. IFIP TC2/WG 2.6 Fourth Working Conference on Visual Database Systems*, pages 186–191, 1998.
- E71. Yuri Leontiev, M. Tamer Özsu, and Duane Szafron. On separation between interface, implementation, and representation in object dbms. In *Proc. Int. Conf. on Technology of Object-Oriented Languages and Systems*, pages 155–167, 1998.
- E72. Heiko Thimm and M. Tamer Özsu. A generic scheme and sample implementation architecture for graceful service adaptation in multimedia database systems. In *Proc. Int. Conf. on Multimedia Computing and Systems*, pages 241–244, 1998.
- E73. Klemens Böhm, Karl Aberer, M. Tamer Özsu, and Kathrin Gayer. Query optimization for structured documents based on knowledge on the document type definition. In *Proc. IEEE Forum on Res. and Tech. Advances in Digital Libraries*, pages 196–205, 1998.
- E74. John Z. Li, M. Tamer Özsu, and Duane Szafron. Point-set topological relations processing in image databases. In *Proc. of the 1st Int. Forum on Multimedia & Image Processing*, pages 54.1—54.6, 1998.
- E75. Iqbal A. Goralwalla, Yuri Leontiev, M. Tamer Özsu, and Duane Szafron. Modeling temporal primitives: Back to basics. In *Proc. 6th Int. Conf. on Information and Knowledge Management*, pages 24–31, 1997.
- E76. Vincent Oria, M. Tamer Özsu, Xiaobo Li, Ling Liu, and Paul Iglinski. Modeling image for content-based queries: The DISIMA approach. In *Proc. 2nd Int. Conf. on Visual Information Systems*, pages 339 – 346, 1997.
- E77. M. Tamer Özsu, Paul Iglinski, Duane Szafron, Sherine El-Medani, and Manuela Junghanns. An object-oriented SGML/HyTime compliant multimedia database management system. In *Proc. 5th ACM Int. Conf. on Multimedia*, pages 239–249, 1997.
- E78. Iqbal A. Goralwalla, Duane Szafron, M. Tamer Özsu, and Randal J. Peters. Managing schema evolution using a temporal object model. In *Proc. 16th Int. Conf. on Conceptual Modeling*, pages 71–84, 1997.
- E79. Youping Niu, M. Tamer Özsu, and Xiaobo Li. 2D-h trees: An index scheme for content-based retrieval of images in multimedia systems. In *Proc. IEEE Int. Conf. on Intelligent Systems*, pages 1710–1715, 1997.
- E80. John Z. Li, M. Tamer Özsu, and Duane Szafron. MOQL: An object-oriented multimedia query language. In *Proc. Int. Workshop on Multimedia Information Systems*, pages 19–28, 1997.
- E81. M. Tamer Özsu, Iqbal A. Goralwalla, and Duane Szafron. A framework for temporal data models: Exploiting object-oriented technology. In *Proc. Int. Conf. on Technology of Object-Oriented Languages and Systems*, pages 16–30, 1997.
- E82. Ling-Ling Yan, M. Tamer Özsu, and Ling Liu. Mediator join indices. In *Proc. 7th Int. Workshop on Research Issues on Data Eng.*, pages 51–59, 1997.

- E83. John Z. Li, M. Tamer Özsu, and Duane Szafron. Modeling of moving objects in a video database. In *Proc. Int. Conf. on Multimedia Computing and Systems*, pages 336–343, 1997.
- E84. Ling-Ling Yan, M. Tamer Özsu, and Ling Liu. Accessing heterogeneous data through homogenization and integration mediators. In *Proc. Int. Conf. on Cooperative Inf. Syst.*, pages 130–139, 1997.
- E85. John Z. Li, M. Tamer Özsu, and Duane Szafron. Modeling video temporal relationships in an object database management system. In *Proc. Multimedia Computing and Networking*, pages 80–91, 1997.
- E86. John Z. Li, M. Tamer Özsu, and Duane Szafron. Spatial reasoning rules in multimedia management system. In *Proc. 3rd Int. Conf. on Multimedia Modeling*, pages 119–133, 1996.
- E87. John Z. Li, M. Tamer Özsu, and Duane Szafron. Modeling of video spatial relationships in an object database management system. In *Proc. Int. Workshop on Multimedia Database Management Systems*, pages 124–132, 1996.
- E88. M. Tamer Özsu, Adriana Muñoz, and Duane Szafron. An extensible query optimizer for an objectbase management system. In *Proc. 4th Int. Conf. on Information and Knowledge Management*, pages 188–196, 1995.
- E89. Iqbal A. Goralwalla, Abdullah Uz Tansel, and M. Tamer Özsu. Experimenting with temporal relational databases. In *Proc. 4th Int. Conf. on Information and Knowledge Management*, pages 296–303, 1995.
- E90. Randal J. Peters and M. Tamer Özsu. Axiomatization of dynamic schema evolution in objectbases. In *Proc. 11th Int. Conf. on Data Engineering*, pages 156–164, 1995.
- E91. R.J. Peters and M. Tamer Özsu. Reflection in a uniform behavioral object model. In *Proc. 12th Int. Conf. on Entity-Relationship Approach*, pages 37–49, ember 1993.
- E92. Iqbal Goralwalla and M. Tamer Özsu. Temporal extensions to a uniform behavioral object model. In *Proc. 12th Int. Conf. on Entity-Relationship Approach*, pages 115–127, ember 1993.
- E93. R.J. Peters, A. Lipka, M. Tamer Özsu, and Duane Szafron. An extensible query model and its languages for a uniform behavioral object management system. In *Proc. 2nd Int. Conf. on Information and Knowledge Management*, pages 403–412, November 1993.
- E94. John Shillington and M. Tamer Özsu. Semipermeable transaction and semantics-based concurrency control for multidatabases. In *Proc. 3rd Int. Workshop on Research Issues on Data Eng.*, pages 245–248, 1993.
- E95. M. Tamer Özsu, Randal J. Peters, Boman Irani, Anna Lipka, Adriana Muñoz, and Duane Szafron. Tigukat object management system: initial design and current directions. In *Proc. Conf. of the IBM Centre for Advanced Studies on Collaborative Research*, pages 595–611, 1993.
- E96. M. Tamer Özsu and Y. Niu. Effects of network protocols on distributed concurrency control performance. In *Proc. Int. Conf. Computing and Inf.*, pages 274–279, 1992.
- E97. Dave D. Straube and M. Tamer Özsu. Execution plan generation for an object-oriented data model. In *Proc. 2nd Int. Conf. on Deductive and Object-Oriented Databases*, pages 43–67, 1991.
- E98. Ken Barker and M. Tamer Özsu. Reliable transaction execution in multidatabase systems. In *Proc. 1st Int. Workshop on Interoperability in Multidatabase Systems*, pages 344–347, April 1991.
- E99. Dave D. Straube and M. Tamer Özsu. Type consistency of queries in an object-oriented database system. In *Proc. 1990 Conf. on Object Oriented Programming Systems Languages and Applications/European Conf. on Object-Oriented Programming*, pages 224–233, 1990.
- E100. Dave D. Straube and M. Tamer Özsu. A model for OODB queries. In *Proc. Object-Oriented Database Task Group Workshop, NIST Technical Report NISTIR 4503*, pages 126–135, 1990.

- E101. Ken Barker and M. Tamer Özsu. Concurrent transaction execution in multidatabase systems. In *Proc. COMPSAC90 – The 14th. Annual Int. Computer Software and Applications Conference*, pages 224–233, 1990.
- E102. M. Tamer Özsu and Ken Barker. Architectural classification and transaction execution models of multidatabase systems. In *Proc. Int. Conf. Computing and Inf.*, pages 275–279, 1990.
- E103. Kok-Lung Wong and M. Tamer Özsu. Distributed simulation of performance Petri Nets. In *Proc. Summer Computer Simulation Conf.*, pages 141–146, 1990.
- E104. M. Tamer Özsu. Architectural models for distributed database operating systems. In *Computing and Inf.*, pages 343–349, 1989.
- E105. Tse-Men Koon and M. Tamer Özsu. Evaluation of reliability mechanisms in distributed database systems. In *Proc. CIPS (Canadian Information Processing Society) Edmonton '87 Conf.*, pages 246–255, 1987.
- E106. M. Tamer Özsu. Distributed simulation using petri nets. In *Proc. Summer Computer Simulation Conference*, pages 3–8, 1987.
- E107. Tse-Men Koon and M. Tamer Özsu. Performance comparison of resilient concurrency control algorithms for distributed databases. In *Proc. 2nd Int. Conf. on Data Engineering*, pages 565–573, 1986.
- E108. Abdel A. Farrag and M. Tamer Özsu. A general concurrency control for database systems. In *National Computer Conf.*, pages 567–573, 1985.
- E109. M. T. Özsu. Performance comparison of distributed vs centralized locking algorithms in distributed database systems. In *Proc. 5th IEEE Int. Conf. on Distributed Computing Systems*, pages 254–261, 1985.
- E110. M. Tamer Ozsu. A net simulator as a performance evaluation tool for distributed database systems'. In *Proc. Convention Informatique*, volume Vol. A, pages 154–159, 1984.
- E111. T. Özsu. An introduction to distributed databases. In *Proc. 2nd UNESCO Regional Seminar on Microprocessors/Microcomputers and Distributed Computer Systems*, pages 304–319, 1982.
- E112. M. Tamer Ozsu and B.W. Weide. Modeling of distributed database concurrency control mechanisms using an extended Petri net formalism. In *Proc. 3rd IEEE Int. Conf. on Distributed Computing Systems*, pages 660–665, 1982.
- E113. M. Tamer Özsu and Esen A. Özkarahan. SYNGLISH - A high-level query language for the RAP database machine. In *Proc. Fifth Workshop on Computer Architecture for Non-Numeric Processing*, pages 139–150, 1980.
- E114. M. Tamer Özsu, Esen A. Özkarahan, and Behcet Sarikaya. High level query language for database machines. In *Proc. 2nd National Information Processing Conf.*, pages 81–89, 1978. (in Turkish).
- E115. M. Tamer Özsu. Management information systems and database systems. In *Proc. 6th National Scientific Congress*, pages 407–422, 1977. (in Turkish).
- ◇ **Invited Publications:**
- F1. M. Tamer Özsu. A survey of RDF data management systems. *Front. Comput. Sci.*, 10(3):418–432, 2016.
- F2. Şule Gündüz and M. Tamer Özsu. Recommendation models for user accesses to web pages. In *Proc. Joint Int. Conf. on Artificial Neural Networks and Neural Information Processing*, pages 1003–1010, 2003 (Text of invited talk.)
- F3. Benjamin Bin Yao, M. Tamer Özsu, and John Keenleyside. XBench - A family of benchmarks for XML DBMSs. In *Efficiency and Effectiveness of XML Tools and Techniques and Data Integration over the Web — Proc. of VLDB Workshops EEXTT and DiWeb*, Lecture Notes in Computer Science 2590, pages 162–164, 2002.

- F4. M. Tamer Özsu. Database support for document and multimedia databases. In *Proc. Datenbanksysteme in Büro, Technik und Wissenschaft (BTW)*, page 3, 2001 (Abstract of keynote address.)
- F5. M. Tamer Özsu. Document management issues in e-commerce. In *Proc. 11th Int. Workshop on Research Issues on Data Eng.*, 2001 (Abstract of keynote address.)
- F6. M. Tamer Özsu. Flexible data integration on the internet: Current trends and issues. In *Proc. Workshop on Information Integration on the Web*, page 1, 2001 (Abstract of keynote address.)
- F7. M. Tamer Özsu, Hans-Jörg Schek, Katsumi Tanaka, and Yanchun Zhang. Special issue on the 2nd web information systems engineering conference (WISE'01). *World Wide Web J.*, 4(3):147–149, 2001.
- F8. M. Tamer Özsu. Issues in multimedia data management. In *Proc. Int. Conf. on Database Eng. and Applications*, pages 452–459, 1999 (Text of keynote address.)
- F9. M. Tamer Özsu. Future of database systems: Changing applications and technological developments. *ACM Comput. Surv.*, 28(4es):article 85, 1996.
- F10. M. Tamer Özsu. Changing infrastructure - new demands on distributed data management. In *Proc. 4th Int. Conf. on Computer Communications and Networks*, 1995 (Abstract of keynote address.)
- F11. M. Tamer Özsu. Query processing issues in object-oriented database systems – Preliminary ideas. In *Proc. 1991 ACM Symp. on Applied Computing*, pages 312–324, 1991.
- F12. M. Tamer Özsu. From data management to knowledge management – Prospects for the next decade (invited paper). In *Proc. of CIPS National Congress*, pages 118–124, 1989.
- F13. M. Tamer Özsu. Distributed database systems – a cause for chaos or a vehicle for order. In *Proc. CIPS Edmonton '88 Conf.*, pages 111–120, 1988.
- ◇ **Other Reviewed Papers:**
- G1. Xuchuan Shen, Lei Zou, M. Tamer Özsu, Lei Chen, Youhuan Li, Shuo Han, and Dongyan Zhao. A graph-based RDF triple store. In *Proc. 31st Int. Conf. on Data Engineering*, pages 1508–1511, 2015. System demonstration paper.
- G2. Olaf Hartig and M. Tamer Özsu. Linked data query processing. In *Proc. 30th Int. Conf. on Data Engineering*, pages 1286–1289, 2014. Tutorial description.
- G3. Vincent Oria, M. Tamer Özsu, Paul Iglinski, Bing Xu, and L. Irene Cheng. DISIMA: An object-oriented approach to developing an image database system. In *Proc. 16th Int. Conf. on Data Engineering*, pages 672–673, 2000. System demonstration description.
- G4. Vincent Oria, M. Tamer Özsu, Paul Iglinski, Shu Lin, and Benjamin Bin Yao. DISIMA: A distributed and interoperable image database system. In *Proc. ACM SIGMOD Int. Conf. on Management of Data*, page 600, 2000. System demonstration description.
- ◇ **Unrefereed Publications:**
- H1. Philip A. Bernstein, David J. DeWitt, Andreas Heuer, Zachary G. Ives, Christian S. Jensen, Holger Meyer, M. Tamer Özsu, Richard T. Snodgrass, Kyu-Young Whang, and Jennifer Widom. Database publication practices. In *Proc. 31st Int. Conf. on Very Large Data Bases*, pages 1241–1246, 2005.
- H2. Philip A. Bernstein, Elisa Bertino, Andreas Heuer, Christian S. Jensen, Holger Meyer, M. Tamer Özsu, Richard T. Snodgrass, and Kyu-Young Whang. An apples-to-apples comparison of two database journals. *ACM SIGMOD Rec.*, 34(4):61–64, 2005.
- H3. M. Tamer Özsu, Jean Carrive, Sébastien Gilles, Izabela Grasland, Roger Mohr, and Thomas Seidl. CVDB 2004 Panel: Future applications and solutions. In *Proc. First Int. Workshop on Computer Vision meets Databases*, pages 67–68, 2004.
- H4. Michael Gertz, M. Tamer Özsu, Gunter Saake, and Kai-Uwe Sattler. Report on the Dagstuhl seminar: “data quality on the Web”. *ACM SIGMOD Rec.*, 33(1):127–132, 2004.

- H5. Zoé Lacroix, M. Tamer Özsu, Joe Wigglesworth, Louiqa Raschid, and Anthony Tomasic. Using standards for data integration over the Web. In *Proc. 2nd Int. Workshop on Data Integration over the Web*, pages 143–145, 2002 (Panel).
- H6. M. Tamer Özsu and Paul Iglinski. An interoperable multimedia catalog system for electronic commerce. *Q. Bull. IEEE TC on Data Eng.*, 23(1):17–22, 2000.
- H7. M. Tamer Özsu. Data management issues in electronic commerce. In *Proc. ACM SIGMOD Int. Conf. on Management of Data*, page 505, 1999 (Panel statement.)
- H8. M. Tamer Özsu and Stavros Christodoulakis. Introduction (special issue on multimedia databases). *VLDB J.*, 7(4):205, 1998.
- H9. M. Tamer Özsu. The push/pull effect - can distributed database technology meet the challenges of new applications? *Database Programming & Design*, April 1997.
- H10. M.T. Özsu and P. Valduriez. Distributed Database Systems: Where Are We Now?. *Database Programming & Design*, March 1992 and April 1992 issues. Originally appeared in *IEEE Computer*, 24(8): 68–78, August 1991.
- H11. Niki Pissinou, Richard T. Snodgrass, Ramez Elmasri, Inderpal Singh Mumick, M. Tamer Özsu, Barbara Pernici, Arie Segev, Babis Theodoulidis, and Umeshwar Dayal. Towards an infrastructure for temporal databases: Report of an invitational ARPA/NSF workshop. *ACM SIGMOD Rec.*, 23(1):35–51, 1994.
- H12. M. Tamer Özsu, Umeshwar Dayal, and Patrick Valduriez. Workshop report – int. workshop on distributed object management. *ACM SIGMOD Rec.*, 22(1):40–54, 1993.
- H13. M. Tamer Özsu. The promise and reality of distributed database systems. *The Relational Journal*, 5(1), February/March 1993.
- H14. M. Tamer Özsu and Patrick Valduriez. Systèmes de gestion de bases de données répartis et parallèles. *Canadian Information Processing/Informatique Canadienne*, July/August 1992.
- H15. M.T. Özsu. Issues in Distributed Database Systems. *Bilisim* (publication of the Information Processing Society of Turkey), No. 19-20, pages 32–38, March-June 1985.
- H16. M.T. Özsu. The Computer Selection Process and Useful Techniques, *Bilgisayar*, No. 33, pages 32–38, July-August 1983 (in Turkish).
- H17. M.T. Özsu. Use of Computers in Industry. *Bilgisayar*, 1(6): 18–21, 1979 (in Turkish).
- ◊ **Blogs/Editorials/Reviews:**
- J1. M. Tamer Özsu. ACM books to launch. *Commun. ACM*, 56(12):5–5, December 2013.
- J2. M. T. Özsu, Computer science publication culture: where to go from here?, *ACM SIGMOD Blog*, 17 July 2012. Available at <http://wp.sigmod.org/?p=488>.
- J3. M. Tamer Özsu. Editorial. *VLDB J.*, 14(1):1, 2005.
- J4. M. Tamer Özsu, Donald Kossmann, and Renée J. Miller. Special issue: Best papers of vldb 2004. *VLDB J.*, 14(4):355–356, 2005.
- J5. M. Tamer Özsu. Chair’s message. *ACM SIGMOD Rec.*, 33(1):4, 2004.
- J6. M. Tamer Özsu. Chair’s message. *ACM SIGMOD Rec.*, 33(3):4–5, 2004.
- J7. M. Tamer Özsu. Chair’s message. *ACM SIGMOD Rec.*, 33(4):7, 2004.
- J8. M. Tamer Özsu. Chair’s message. *ACM SIGMOD Rec.*, 32(2):4, 2003.
- J9. M. Tamer Özsu. Chair’s message. *ACM SIGMOD Rec.*, 32(3):4, 2003.
- J10. M. Tamer Özsu. New partnership with ACM and update on the journal. *VLDB J.*, 12(1):1, 2003.
- J11. M. Tamer Özsu. Chair’s message. *ACM SIGMOD Rec.*, 31(2):3–4, 2002.
- J12. M. Tamer Özsu. Chair’s message. *ACM SIGMOD Rec.*, 31(3):3–4, 2002.
- J13. M. Tamer Özsu. Chair’s message. *ACM SIGMOD Rec.*, 31(4):3–4, 2002.

- J14. Qing Li and M. Tamer Özsu. Editorial: Introduction to web media information systems. *World Wide Web J.*, 5(2):179–180, 2002.
- J15. M. Tamer Özsu. Chair’s message. *ACM SIGMOD Rec.*, 30(3):4–5, 2001.
- J16. M. Tamer Özsu. Chair’s message. *ACM SIGMOD Rec.*, 30(4):3, 2001.
- J17. Elisa Bertino and M. Tamer Özsu. Guest editors’ introduction. *Distrib. Parall. Databases*, 2(1):5–6, 1994.
- J18. M.T. Özsu. Review of ‘Providing high availability using lazy replication’ by R. Ladin, B. Liskov, L. Shrira and S. Ghemawat. *Computing Reviews*, February 1994.
- J19. M.T. Özsu. Review of ‘Cost and availability tradeoffs in replicated data concurrency control’ by A. Kumar and A. Segev. *Computing Reviews*, August 1994.
- J20. M.T. Özsu. Review of ‘Rule-based optimization and query processing in an extensible geometric database system’ by L. Becker and R.H. Güting. *Computing Reviews*, December 1993.
- J21. M.T. Özsu and L.Y. Yuan. Review of ‘A correction of the termination conditions of the HensChen-Naqvi technique’ by D.A. Briggs. *Computing Reviews*, September 1992, p. 519.
- J22. M.T. Özsu and W. Davis. Guest Editorial. *INFOR*, 26(4): 231–233, November 1988.
- J23. M.T. Özsu and W. Davis. Guest Editorial. *INFOR*, 27(2): 127–128, May 1989.
- J24. M.T. Özsu. Issues in Distributed Databases. (Session Coordinator. Introduction), In *Proc. 20th Annual Hawaii Int. Conf. on System Sciences*, Kona, Hawaii, January 1987, pages 405–406.
- J25. M.T. Özsu. Issues in Distributed Databases. (Session Coordinator. Introduction), In *Proc. 19th Annual Hawaii Int. Conf. on System Sciences*, Honolulu, Hawaii, January 1986, pages 619–621.
- J26. M.T. Özsu. Security and Privacy of Records Stored in Computers. *Cumhuriyet Newspaper Computer Supplement*, May 13, 1983 (in Turkish).