CURRICULUM VITAE

TIMOLEON K. SELLIS
Professor, RMIT University

PERSONAL

Born: Athens, GREECE, September 10, 1959
Marital status: Married, two children
Citizenship: Greek

POSITIONS HELD

2012-	Professor, School of Computer Science and Information Technology, RMIT University, Melbourne, Australia.
2007-2012	Director, Institute for the Management of Information Systems, part of the Research and Innovation Centre in Information, Communication and Knowledge Technologies ("Athena"), Greece.
2000-02	Department Vice Chair, Department of Electrical and Computer Engineering, Computer Science Division, National Technical Univ. of Athens, Greece.
1996-2012	Professor, Department of Electrical and Computer Engineering, Computer Science Division, National Technical Univ. of Athens, Greece.
1992-96	Associate Professor, Department of Electrical and Computer Engineering, Computer Science Division, National Technical Univ. of Athens, Greece.
1992	Associate Professor, Department of Computer Science, Univ. of Maryland, College Park, Maryland, USA.
1986-92	Assistant Professor, Department of Computer Science, Univ. of Maryland, College Park, Maryland, USA.

RESEARCH INTERESTS

Big data, data streams, personalization, data integration, and spatio- temporal database systems.

EDUCATION

Ph.D. December 1986, Univ. of California, Berkeley, in Computer Science.

M.Sc. May 1983, Harvard University, in Applied Mathematics (Computer Science).

B.Sc. June 1982, National Technical Univ. of Athens, Greece, in Electrical Engineering.

EXPERIENCE WITH HIGHER EDUCATION

Instructor for the courses "Computer Science I", "Data Structures", "Database Design", "Database Management Systems", "Artificial Intelligence", "Advanced Database Systems". University of Maryland, College Park and National Technical Univ. of Athens. Several graduate courses.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- Member of the Institute of Electrical and Electronic Engineers (IEEE, Fellow).
- Member of the Association for Computing Machinery (ACM, Fellow).

PhD STUDENT ADVISING

1. C-C. Lin, *"Coupling Production Systems and Database Systems: A Homogeneous Approach"*, Univ. of Maryland, College Park, 1990.
2. K. Shim, *"Advanced Query Optimization Techniques for Relational Database Systems"*, Univ. of Maryland, College Park, 1993.
3. M. Koubarakis, *"Foundations of Temporal Constraint Databases"*, National Technical Univ. of Athens, 1994.

4. D. Papadias, *"Relation-based Representations for Spatial Knowledge"*, National Technical Univ. of Athens, 1995.
5. Y. Theodoridis, *"Spatial Data Structures: Analytical Models and Efficient Algorithms"*, National Technical Univ. of Athens, 1996.
6. E. Stefanakis, *"Development of Intelligent Geographic Information Systems"*, National Technical Univ. of Athens, 1996.
7. S. Skiadopoulos, *"Query Processing Issues in Constraint Databases"*, National Technical Univ. of Athens, 2002.
8. N. Karayannidis, *"Storage Structures, Query Processing and Implementation of On-Line Analytical Processing Systems"*, National Technical Univ. of Athens, 2003.
9. Y. Stavrakas, *"Multidimensional Semistructured Data: Representing and Querying Context-Dependent, Multifacet Information on the Web"*, National Technical Univ. of Athens, 2003.
10. A. Simitsis, *"Modelling and Optimization of Extraction-Transformation-Loading (ETL) Processes in Data Warehouse Environments"*, National Technical Univ. of Athens, 2004.
11. A. Tsois, *"Optimization of On-Line Analytical Processing Systems: Conceptual Data Modelling and Query Processing Techniques"*, National Technical Univ. of Athens, 2005.
12. M. Terrovitis, *"Modelling and Operational Issues for Pattern Base Management Systems"*, National Technical Univ. of Athens, 2007.
13. V. Kantere, *"Query Processing in P2P Overlays"*, National Technical Univ. of Athens, 2007.
14. D. Sacharidis, *"Data Stream Management"*, National Technical Univ. of Athens, 2008.
15. D. Skoutas, *"Discovery and Integration of Data and Services in the Semantic Web"*, National Technical Univ. of Athens, 2008.
16. G. Giannopoulos, *"Methods on retrieving sources and data from the Web, for supporting scientific innovation"*, National Technical Univ. of Athens, 2014.
17. Th. Vetgoulis, *"Advanced Query and Data Management Techniques for Biosciences Data"*, National Technical Univ. of Athens, 2014.

GRANTS
While in the USA

- NSF Grant for research on *"High Performance Engineering Information Systems"*, 7/88-7/91. Principal Investigator: N. Roussopoulos. Co-Principal Investigators: C. Faloutsos, L. Mark, T. Sellis. Amount: US$400,000. (University of Maryland, College Park, U.S.A)
- NSF Grant for research on *"Multiple-Query Processing and Caching in Deductive Database Systems"*, 9/88-9/89. Amount: US$50,000. (University of Maryland, College Park, U.S.A)
- AFOSR Grant for research on *"Design Issues for High Performance Engineering Information Systems"*, 3/89-3/92. Principal Investigator: N. Roussopoulos. Co-Principal Investigators: C. Faloutsos, L. Mark, T. Sellis. Amount: US$428,000. (University of Maryland, College Park, U.S.A)
- Presidential Young Investigator (PYI) award, 1990-1995. Amount: US$25,000 per year, additional US$37,500 matching funds, for five years. (University of Maryland, College Park, U.S.A)
- Bellcore grant for research on *"Improving the Performance and Functionality of Relational Database Systems"*, PYI matching funds, 1990-1991. Amount: US$10,000. (University of Maryland, College Park, U.S.A)
- Digital Equipment Corporation grant for research on *"Improving the Performance and Functionality of Relational Database Systems"*, PYI matching funds, 1990-1991. Amount: US$45,750. (University of Maryland, College Park, U.S.A)
- NASA grant for research on *"VIEWCACHE: An Incremental Pointer-based Access Methods for Autonomous Interoperable Databases"*, 1990-1992. Principal Investigator: N. Roussopoulos. Co-Principal Investigator: T. Sellis. Amount: US$210,000. (University of Maryland, College Park, U.S.A)
- International Business Machines (IBM) grant for research on *"Database Production Rules: Applications, Optimizations, and Extensions"*, PYI matching funds, 1991-1992. Amount: US$43,300. (University of Maryland, College Park, U.S.A)

While in Greece
- Digital Equipment Corporation (External European Research Program) grant for research on *"Improving the Performance and Functionality of Relational Database Systems"*, 1991-1992. Amount: US$90,000.
- ESPRIT Program grant for research on *"AMUSING: Algorithms, Methods, User Services and Interfaces for Geography"*, 1992-1995. Amount: ECU 67,500.
- Digital Equipment Corporation (External European Research Program) grant for research on *"Improving the Performance and Functionality of Relational Database Systems"*, 1992-1993. Amount: US$70,000.

- PENED 91 program grant from the General Secretariat of Research and Technology for research on "*Geographical Database Systems*", 1993-1995. Amount: 6.000.000 GRD.
- ESPRIT (Hellenic Special Action) Program grant for research on "*ALEXANDER: Multimedia Applications Based on the Greek Cultural Heritage of Northern Greece*", 1993-1995. Amount: ECU 86.600.
- Human Capital and Mobility Program grant for research on "*Research Network on Active Database Systems*", 1993-1996. Amount: ECU 40.000.
- Hewlett-Packard (HP Laboratories) grant for research on "*Object-Oriented Models for Hypermedia/Multimedia Applications*", 1994-1995. Amount: 25.000.000 GRD in equipment.
- Preparatory Actions in Telematics (Electronic Publishing) Program grant for research on "*TSAI: Telematics Services for the Advertising Industry*", 1993-1996. Amount: ECU 10.000.
- EPET II program grant from the General Secretariat of Research and Technology for research on "*ARCHEOTOOL: A tool for archeology*"", 1995-1996. Amount: 6.000.000 GRD.
- EPET II program grant from the General Secretariat of Research and Technology for research on "*PHARMATEL: A system for managing drugs in a hospital environmnent*", 1995-1997. Amount: 30.000.000 GRD.
- YPER program grant from the General Secretariat of Research and Technology for research on "*Intelligent Spatial Database Management Systems*", 1995-1998. Amount: 13.000.000 GRD.
- TELEMATICS Applications Program grant for research on "*NIVEMES: A Network of Integrated Vertical Medical Services Targeting Ship Vessels and Remote Populations*", 1995-1998. Amount: ECU 102.200.
- Networks for Dissemination of R&D Knowledge program grant from the General Secretariat of Research and Technology on "*Geographic Information Systems and its Applications*", 1995-1997. Amount: 2.000.000 GRD.
- PENED 95 program grant from the General Secretariat of Research and Technology for research on "*An Object-Oriented Database Model for Multimedia and Interactive Applications*", 1995-1998. Amount: 8.000.000 GRD.
- Training and Mobility for Researchers Program grant for research on "*CHOROCHRONOS: Research Network on Spatio-Temporal Database Systems*", 1996-1999. Amount: ECU 195.000. (**Prof. Sellis was the coordinator of the Project**, with a total budget of 1.770.000 euros)
- ESPRIT Program grant for research on "*DWQ: Foundations of Data Warehouse Quality*", 1996-1999. Amount: ECU 180.000. (NTUA is the project coordinator).
- EU IST Program grant for research on "*EDITH: European Development of Indexing Techniques for Databases with Multidimensional Hierarchies*", 2000-2002. Amount: Euro 300.000.
- EU IST Program grant for research on "*DELOS: a Network of Excellence on Digital Libraries*", 2004-2008. Amount: Euro 100.000.
- EU IST Program grant for research on "*TALOS: Task aware location based services for mobile environments*", 2008-2010. Amount: Euro 380.000.
- EU IST Program grant for research on "*LeMPEM- Web Graph: Learning Models for Prediction and Evolution Monitoring*", 2008-2011, Amount: Euro 189.000
- EU IST Program grant for research on "*BIOSEC: Security and Privacy in Life Sciences Data*", 2009-2011, Amount: Euro 214.655
- Grant from the General Secretariat of Research and Technology, Industry-Academia Cooperation project, "*Common Airport Portal*", 2010-2013; Amount: Euro 150.000.
- EU IST Program grant for research on "*ARCOMEM: ARchive COmmunities MEMories*", 2011-2014. Amount: Euro 560.000.
- EU Marie-Curie ITN Program grant for research on "*GEOCROWD: Creating a Geospatial Knowledge World*", 2011-2014. Amount: Euro 1.077.000 (**Prof. Sellis was the coordinator of the Project**, with a total budget of 3.577.000 euros).
- Grant from the General Secretariat of Research and Technology, Industry-Academia Cooperation project "*MoDiSSENSE; Distributed Platform for Service Development for Mobile Social Networking*", 2011-2014, Amount: Euro 140.000
- Grant from the General Secretariat of Research and Technology, "*EICOS: foundations for perSOnalized Cooperative Information Ecosystems*", 2012-2015, Amount: Euro 600.000
- Grant from the General Secretariat of Research and Technology, "*PAUSANIAS: Ranked Spatial-keyword Search over Web-accessible Geotagged Data*"; 2012-2015, Amount: Euro 150.000
- Grant from the General Secretariat of Research and Technology, Research Excellence program, "*LODGOV: Data Governance in the era of the Web of Data: generate, manage, preserve, share and protect resources in the Web of Data*", 2012-2015. Amount: Euro 377.000.
- EU IST Program grant for research on "*GEOKNOW: Making the Web an Exploratory for Geospatial Knowledge*", 2012-2015. Amount: Euro 493.000.

- EU IST Program grant for research on "*DIACHRON: Managing the Evolution and Preservation of the Data Web*", 2012-2015. Amount: Euro 574.000.
- EU IST Program grant for research on "*SimpleFleet: Democratizing Fleet Management*", 2012-2014. Amount: Euro 438.000.
- EU IST Program grant for research on "*TMGuide: TALOS Mobile Guidest*", 2012-2014. Amount: Euro 92.000.
- Grant from the General Secretariat of Research and Technology, Centers of Excellence program, "*Big Data – Challenges, Methods and Techniques for Efficient Management*", 2013-2015. Amount: Euro 1.120.000

Several grants from Greek Ministries (Transportation, Public Works, Development, etc).

While in Australia
- Grant from Google (Google Faculty Research Award), "*Searching, combining and interpreting tabular data in scientific papers*", 2013-2014, Amount: AUD 53.000.
- Discovery Project (ARC), "*Efficient and Effective Ad-hoc Search Using Structured and Unstructured Geospatial Information*", 2014-2016, Amount: AUD 422.000

ACADEMIC DISTINCTIONS AND AWARDS

1977-1982: 5 Greek National Scholarship Foundation awards (one per year).

1982: Graduation Rank from B.Sc. program: 3rd in a class of 150 students.

1982-1983: Harvard University Fellowship

1983-1986: Several research assistantships and tuition scholarships (Univ. of California, Berkeley)

1990-1994: **Presidential Young Investigator** (PYI) award. Awarded by the President of the United States of America to the top young researchers.

1997: **VDLB 10 Year Paper Award** (awarded to the paper published in the proceedings of the VLDB 1987 conference that had the biggest impact in the field of database systems in the decade 1987-97). For the paper: "*The R+-Tree: A Dynamic Index for Multi-Dimensional Objects*", by Timos K. Sellis, Nick Roussopoulos and Christos Faloutsos.

2001-03 **Chair,** National Research Council of Research and Technology, Greece.

2008-10 **Chair,** Research Council on Informatics-Telecommunications-Systems, Greece.

2009 **IEEE Fellow,** for contributions to database query optimization, and spatial data management.

2010-12 **Representative of Greece,** ICT FP7 Program Committee, European Union.

2013 **ACM Fellow,** for contributions to database query optimization, spatial data management, and data warehousing.

EXTERNAL SERVICES

1986- **Referee**: Information Systems, ACM Transactions on Database Systems, ACM Transactions on Office Systems, ACM Computing Surveys, IEEE Transactions on Software Engineering, IEEE Transactions on Knowledge and Data Engineering, IEEE Transactions on Parallel and Distributed Systems, IEEE Expert, IEEE Computer, Journal of Parallel and Distributed Computing, Information Sciences, BIT, Data and Knowledge Engineering, VLDB Journal, and others.

1986- Invited talks in several international conferences and workshops, universities and research labs.

1987- Program Committee Member, in several international conferences and workshops

1987-92 **Reviewer**, National Science Foundation.

1988-92 **Reviewer**, Morgan/Kauffman Publishing Company (book series on Databases).

1989 **Review Panel** Member, National Science Foundation Research Initiation Awards, Expert and Database Systems Program, April 1989.

1989 **Tutorial Organizer**, Second International Conference on Data and Knowledge Systems for Engineering and Manufacturing.

1989 **Guest Editor**, ACM SIGMOD Record Special Issue on Rule Management and Processing in Expert Database Systems.

1990-94 **Associate Editor**, IEEE Transactions on Knowledge and Data Engineering.

1990-93 **Associate Editor**, ACM SIGMOD Record.

1990 **Review Panel** Member, National Science Foundation Research Initiation Awards, Expert and Database Systems Program.

1990 **Panel Member**, Applying Knowledge-based Technology: Trends & Directions, 14th IEEE International Computer Software and Application Conference (COMPSAC 90), Chicago, IL, October 1990.

1991-94 **Co-Editor In Charge**, International Journal on Intelligent & Cooperative Information Systems, World Scientific Publishing Co.

1991- **Associate Editor**, International Journal on Intelligent Information Systems: Integrating Artificial Intelligence and Database Technologies, Kluwer Academic Publishers.

1995 **Organizer and Program Committee Chair**, *Second International Workshop on Rules in Database Systems,* Glyfada, Athens, Greece, September 25 - 27, 1995.

1996-00 **VLDB Endowment**, member of the Endowment.

1996 **Organizer and Program Committee Chair**, *First International Conference on Geographic Information Systems in Urban, Regional and Environmental Planning,* Island of Samos, Greece, April 19-21, 1996.

1996- **Associate Editor**, *GeoInformatica*, Kluwer Academic Publishers.

1997 **Program Committee Co-Chair**, *6th Hellenic Conference on Informatics (HCI-6),* Thessaloniki, Greece, October 1997.

1997 **Organizing Committee Chair**, *23rd International Conference on Very Large Data Bases (VLDB 97),* Glyfada, Athens, Greece, August 1997.

1998- **Associate Editor**, *VLDB Journal*, Springer Verlag

1999 **Vice Chair**, Mathematics and Information Sciences Panel, Research Networks, Training and Mobility for Researchers Programme, European Commission.

2001 **Program Committee Chair**, 2001 ACM-SIGMOD International Conference on the Management of Data (ACM SIGMOD 2001).

2001 **Chair**, Mathematics and Information Sciences Panel, Research Networks, Training and Mobility for Researchers Programme, European Commission.

2001-03 **Chair,** National Council of Research and Technology, Greece.

2001-05 **ACM SIGMOD Advisory Board**, member of the Board.

2001 **General Chair**, 1st Hellenic Data Management Symposium (HDMS 02)

2006 **Program Committee co-Chair**, 10th East-European Conference on Advances in Databases and Information Systems (ADBIS 2006).

2007 **Program Committee co-Chair**, 23rd IEEE International Conference on Data Engineering (ICDE 07)

2008-10 **Chair,** Research Council on Informatics-Telecommunications-Systems, Greece.

2009- **Associate Editor**, IEEE Transactions on Knowledge and Data Engineering.

2010- **Representative of Greece**, ICT FP7 Program Committee, European Union.

2011 **General Chair**. ACM International Conference on the Management of Data (ACM SIGMOD 2011)

2015 **General Chair**. ACM International Conference on the Management of Data (ACM SIGMOD 2015)

PUBLICATIONS (In reverse chronological order)

His profile in Google Scholar reports 285 publications (http://scholar.google.gr/citations?user=G1Iux80AAAAJ) with 10,665 citations, h-index: 49 and i10-index: 125. According to Google Scholar, Prof. Sellis currently ranks

internationally 21st among all researchers in the area of Database Systems (http://scholar.google.gr/citations?view_op=search_authors&hl=en&mauthors=label:database_systems&after_auth or=cPMBAEPL__8J&astart=10) and **first among all database researchers in <u>Australia</u>**.

BOOKS

B.1   T. Sellis, "Rules in Database Systems, Second International Workshop", Glyfada, Athens, Greece, September 25 - 27, 1995. Lecture Notes in Computer Science. Eds.: G. Goos, J. Hartmanis, J. van Leeuwen, Vol. 985, 373 pp., September 1995.

B.2   A. Dogac, M.T. Ozsu, A. Biliris and T. Sellis, "Advances in Object-Oriented Database Systems", NATO ASI Series, Computer and Systems Sciences, Springer Verlag, Vol. 130, 515 pp., June 1994.

B.3   P. Vassiliadis and T. Sellis, "Object-Oriented Database Management Systems", Papassotiriou Publ. Co., Athens, Greece, 1997 (in Greek).

B.4   M. Koubarakis, T. Sellis, et al "Spatio-Temporal Database Systems: The CHOROCHRONOS approach", Springer Verlag, Vol. 2520, 352 pp., August 2003.

BOOK CHAPTERS

BC.1   E. Stefanakis and T. Sellis, *"Towards the design of a DBMS repository for temporal GIS"*, in "ESF-GISDATA Book: Time and Motion of Socio-Economic Units", Taylor & Francis, 1999.

BC.2   M. Vazirgiannis and T. Sellis, *"Multimedia Database Management Systems"*, in "Advanced Data Base Technology and Design", M. Piattini, O. Diaz (editors), Artech House Publishers, 2000.

BC.3   Y. Vassiliou, M. Bouzeghoub, M. Jarke, M. Jeusfeld, M. Lenzerini, T. Sellis, S. Ligoudistianos, A. Tsois and P. Vassiliadis, *"Data Warehouse Research: Issues and Projects"*, in "Fundamentals of Data Warehouses", M. Jarke, M. Lenzerini, Y. Vassiliou, P. Vassiliadis (editors), Springer-Verlag, 2000.

BC.4   N. Karayannidis, A. Tsois, P. Vassiliadis, and T. Sellis, *"Design of the ERATOSTHENES OLAP Server"*, in "Advances in Informatics - Post-Proceedings of the 8th Panhellenic Conference in Informatics", Lecture Notes in Computer Science, Vol. 2563, Springer Verlag, 2003.

BC.5   A. Simitisis, P. Vassiliadis and T. Sellis, "*Extraction-Transformation-Loading Processes in Data Warehouse Environments*", in "Encyclopedia of Database Technologies and Applications", L. Rivero, J. Doorne and V. Ferraggine (editors), Idea Group Inc., 2005.

BC.6   T. Dalamagas, T. Cheng, and Timos Sellis, "*On the Usage of Structural Distance Metrics for Mining Hierarhical Structures*", in "Processing and Managing Complex Data for Decision Support", J. Darmont and Omar Boussaid (editors), Idea Group Inc., 2005.

BC.7   A. Simitisis, P. Vassiliadis, S. Skiadopoulos and T. Sellis, "*Data Warehouse Refreshment*", in "Data Warehouses and OLAP: Concepts, Architectures and Solutions", R. Wrembel and C. Koncilia (editors), Idea Group Inc., 2006.

BC.8   N. Karagiannidis, A. Tsois and T. Sellis, "*Advanced Ad Hoc Star Query Processing*", in "Data Warehouses and OLAP: Concepts, Architectures and Solutions", R. Wrembel and C. Koncilia (editors), Idea Group Inc., 2006.

REFEREED JOURNALS

J1.   T. Sellis, *"Multiple-Query Optimization"*, ACM Transactions on Database Systems, Vol. 13, No. 1, March 1988, pp. 23-52.

J2.   N. Roussopoulos, C. Faloutsos and T. Sellis, *"An Efficient Pictorial Database System for PSQL"*, IEEE Transactions on Software Engineering, Vol. 14, No. 5, May 1988, pp. 639-650.

J3.   T. Sellis, *"Intelligent Caching and Indexing Techniques for Relational Database Systems"*, Information Systems, Vol. 13, No. 2, June 1988, pp. 175-185 (Pergamon Press).

J4.   T. Sellis, N. Roussopoulos, L. Mark and C. Faloutsos, *"Expert Database Systems: Efficient Support for Engineering Environments"*, Data and Knowledge Engineering, Vol. 3, No. 3, August 1988, pp. 71-85. (Elsevier Science)

J5.   C-C. Lin, L. Mark, T. Sellis and C. Faloutsos, *"Performance Issues in the Binary Relationship Model"*, Data and Knowledge Engineering, Vol. 4, No. 3, September 1989, pp. 195-221. (Elsevier Science)

J6.   T. Sellis, N. Roussopoulos and R. Ng, *"Efficient Compilation of Large Rule Bases Using Logical Access Paths"*, Information Systems, Vol. 15, No. 1, March 1990, pp. 73-84. 185 (Pergamon Press).

J7.   T. Sellis and S. Ghosh, *"On the Multiple-Query Optimization Problem"*, IEEE Transactions on

Knowledge and Data Engineering, Vol. 2, No. 2, June 1990, pp. 262-266.

J8.   J. Grant and T. Sellis, *"Extended Database Logic: Complex Objects and Deduction"*, Information Sciences - An International Journal, Vol. 52, No. 1, October 1990, pp. 85-110. (Elsevier Science Publ.)

J9.   N. Roussopoulos, L. Mark, T. Sellis and C. Faloutsos, *"An Architecture for High Performance Engineering Information Systems"*, IEEE Transactions on Software Engineering, Vol. 17, No. 1, January 1991, pp. 22-33.

J10.   T. Sellis and L. Shapiro, *"Query Optimization for Non-traditional Database Applications"*, IEEE Transactions on Software Engineering, Vol. 17, No. 1, January 1991, pp. 77-86.

J11.   D. Metaxas and T. Sellis, *"A Frame-based Model for Large Manufacturing Databases"*, Journal of Intelligent Manufacturing, Vol. 2, No. 2, February 1991, pp. 53-60. (Chapman and Hall, Ltd)

J12.   M. Papazoglou, S.C. Laufmann, and T. Sellis, *"An Organizational Framework for Cooperating Intelligent Information Systems"*, International Journal of Intelligent and Cooperative Information Systems, Vol. 2, No. 1, March 1992, pp. 169-202. (World Scientific Pub.)

J13.   Y. Ioannidis and T. Sellis, *"Supporting Inconsistent Rules in Database Systems"*, Journal of Intelligent Information Systems, Vol. 1, No. 3/4, December 1992, pp. 243-270. (Kluwer Academic Publ.)

J14.   C. S. Jensen, L. Mark, N. Roussopoulos and T. Sellis, *"Using Caching, Cache Indexing, and Differential Techniques to Efficiently Support Transaction Time"*, VLDB Journal, Vol. 2, No. 1, January 1993, pp. 75-111. (Springer Verlag)

J15.   J. Grant, W. Litwin, N. Roussopoulos and T. Sellis, *"Query Languages for Relational Multidatabases"*, VLDB Journal, Vol. 2, No. 2, April 1993, pp. 153-171. (Springer Verlag)

J16.   T. Sellis, C-C. Lin and L. Raschid, *"Coupling Production Systems and Database Systems: A Homogeneous Approach"*, IEEE Transactions on Knowledge and Data Engineering, Vol. 5, No. 2, April 1993, 240-256.

J17.   L. Raschid, T. Sellis and A. Delis, *"A Simulation-Based Study on the Concurrent Execution of Rules in a Database Environment"*, Journal of Parallel and Distributed Computing, Vol. 20, Jan. 1994, pp. 20-42. (Academic Press)

J18.   K. Shim, T. Sellis and D. Nau, *"Improvements on a Heuristic Algorithm for Multiple-Query Optimization"*, Data and Knowledge Engineering, Vol. 12, No. 2, March 1994, pp. 197-222. (Elsevier Science)

J19.   D. Papadias and T. Sellis, *"Qualitative Representation of Spatial Knowledge in two-dimensional Space"*, VLDB Journal, Vol. 3, No. 3, October 1994, pp. 479-516. (Springer Verlag)

J20.   D. Papadias and T. Sellis, *"A Pictorial Query-by-Example Language"*, Journal of Visual Languages and Computing, Vol. 6, March 1995, pp. 53-72. (Academic Press)

J21.   C. Faloutsos, R. Ng and T. Sellis, *"Flexible and Adaptable Buffer Allocation Techniques"*, IEEE Transactions on Computers, Vol. 44, No. 4, April 1995, pp. 546-560.

J22.   Y. Ioannidis, R. Ng, K. Shim and T. Sellis, *"Parametric Query Optimization"*, VLDB Journal, Vol. 6, No. 2, May 1997, pp. 132-151. (Springer Verlag)

J23.   E. Stefanakis, Y. Theodoridis, T. Sellis and Y.C. Lee, *"Point Representation of Spatial Objects and Query Window Extension: A New Technique for Spatial Access Methods"*, The International Journal of Geographical Information Systems Vol. 11, No. 6, Dec. 1997. (Taylor & Francis).

J24.   E. Stefanakis and T. Sellis, *"Enhancing Operations with Spatial Access Methods in a DBMS for GIS"*, Cartography and Geographic Information Systems, Vol. 25, No. 1, January 1998.

J25.   M. Vazirgiannis, Y. Theodoridis and T. Sellis, *"Spatio-Temporal Composition and Indexing for Large Multimedia Applications"*, ACM Multimedia Systems Journal Vol. 6, No. 4, July 1998 (Springer- Verlag).

J26.   Y. Theodoridis, D. Papadias, E. Stefanakis and T. Sellis, *"Direction Relations and Two-Dimensional Range Queries: Optimization Techniques"*, Data and Knowledge Engineering, Vol. 27, No. 3, October 1998, pp. 313-336. (Elsevier Science)

J27.   E. Stefanakis, M. Vazirgiannis and T. Sellis, *"Incorporating Fuzzy Set Methodologies in a DBMS Repository for the Application Domain of GIS"*, The International Journal of Geographical Information Systems, Vol. 13, No. 7, September 1999. (Taylor & Francis)

J28.   I. Kostalas, M. Vazirgiannis and T. Sellis, *"Specifying and Authoring Multimedia Scenarios"*, IEEE Multimedia, Vol. 6, No. 3, September 1999. (IEEE Press)

J29.   D. Theodoratos and T. Sellis, *"Designing Data Warehouses"*, Data and Knowledge Engineering, Vol. 31, No. 3, November 1999, pp. 279-301. (Elsevier Science)

J30.   Y. Theodoridis, E. Stefanakis and T. Sellis, *"Efficient Cost Models for Spatial Queries Using R-Trees"*, IEEE Transactions on Knowledge and Data Engineering, Vol. 13, No. 1, March 2000, pp. 19-

32. (IEEE Press)

J31. I. Mirbel, B. Pernici, T. Sellis, S. Tserkezoglou and M. Vazirgiannis, "*Checking the Temporal Integrity of Interactive Multimedia Documents*", VLDB Journal, Vol. 9, No. 2, June 2000, pp. 111-130. (Springer Verlag).

J32. M. Vazirgiannis, D. Tsirikos, Th. Markousis, M. Trafalis, Y. Stamati, M. Hatzopoulos and T. Sellis, "*Interactive Multimedia Documents: A Modeling, Authoring and Rendering Approach*", Multimedia Tools & Applications Journal (special issue on Authoring and Delivery Multimedia Presentations), Vol. 39, No. 2/3, November 2000, pp. 145-188 (Kluwer Academic Publishers).

J33. D. Theodoratos, S. Ligoudistianos and T. Sellis, "*View Selection for Designing the Global Data Warehouse*", Data and Knowledge Engineering, Vol. 39, No. 3, November 2001, pp. 219-340. (Elsevier Science)

J34. P. Vassiliadis, Z. Vagena, S. Skiadopoulos, N. Karayannidis, and T. Sellis, "*Arktos: Towards the Modeling, Design, Control and Execution of ETL Processes* ", Information Systems, Vol. 26, No. 8, December 2001, pp. 537-561 (Pergamon Press).

J35. T. Hadzilakos, G. Halaris, M. Kavouras, M. Kokla, G. Panopoulos, I. Paraschakis, T. Sellis, L. Tsoulos and M. Zervakis, "*Interoperability and definition of a national standard for geospatial data: the case of the Hellenic Cadastre*", International Journal of Applied Earth Observation and Geoinformation, Vol. 2, No. 2, May 2000, pp. 120-128 (Elsevier Science).

J36. N. Karayannidis and T. Sellis, "*SISYPHUS: The Implementation of a Chunk-Based Storage Manager for OLAP Data Cubes*", Data and Knowledge Engineering, Vol. 45, No. 2, May 2003, pp. 155-180 (Elsevier Science)

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