

CURRICULUM VITAE



Name : **Witold A. LITWIN**

Born : June 11, 1946

Nationality : French

Address & Tel : University Paris 9 Dauphine, Place du Mal. de Lattre, 75016 Paris, France
33.1.44-05-48-80 (voice & fax)

mailto : <mailto:witold.litwin@dauphine.fr>

Web page : <http://www.lamsade.dauphine.fr/~litwin/>

Diploma :

Doctor Es-Sciences Mathematiques (Docteur d'Etat). March 1979, University Paris 6.

Doctor in Informatics (Ph. D). June 1971, University Paul Sabatier.

Magister-Engineer in Comp. Science, Feb. 1969, Warsaw Polytechnic School

Employements :

Université Dauphine PSL

Professor Emeritus (Sept 2014...)

University of Paris 9 (Dauphine) (1989-2014)

Professor (Professeur Titulaire)

Institut National de Recherche en Informatique et Automatique INRIA (1977 - 1989) :

Research Director 1986 - 1989

Research Engineer 1977 - 1986

Ministry of Employment (1974 - 1977) :

Chef Analyst 1975 -1977

Technical Consultant 1974 - 1975

Compagnie d'Etudes et de Realisations de Cybernetique Industr. (CERCI) (1972 - 1974) :

Engineer IIB

Institut de Recherche en Informatique et Automatique IRIA (1969 - 1972), renamed INRIA

:

Engineer 2A (1971 - 1972).

Researcher Cat 1 (1970 - 1971).

French Government Fellowship (1969 - 1970).

Professional Activities :

Research areas :

Scalable distributed data structures, (linear, dynamic, extensible..) hashing, distributed multidatabase systems, interoperability, OODBs, main memory DBs.

Results are described in many database books, have been applied in commercial systems and have triggered a large number of follow-up papers (details upon demand).

Research Activities at U. Paris Dauphine

Director of Research Laboratory CERIA (1997-2009). Member of LAMSADE at present.

Other non-teaching activites at U. Paris Dauphine

Member of "Commision des Spécialistes" de l'Informatique (when these committees existed, till 2007, from memory).

Research projects at INRIA :

SIRIUS Pilot Project on Distributed Databases, 1978-1983, Research Dir., then Proj. Dir., (1981-1983).

SESAME Project on Multidatabase Systems, INRIA, 1983-..., Project Dir.

Associated Editor :

Information Systems (Pergamon Press), IEEE-CS Newsletter, IEEE Looking Forward.

Reviewer :

CACM, ACM-TODS, ACM-TOIS, IEEE-Software, IEEE-Computer, IEEE-TDKE, Information Systems, NSF, VLDB, SIGMOD, IFIP...

Societies : ACM (SIGMOD), IEEE

Expert :

ISO : Sub-Committee SC-16 (1981 - 1986)

CEC : INSIS Program, Access to Community Databases Sub-Committee (1983 - 1988)

Animator of Collective Research Activities

IGDD : Interest Group on Distributed Data (1983 -1989). IGDD was an intl. group, first of the kind, involving researchers interested in the subject, mainly in Europe. Main result was 2nd Conf. on Distributed Databases (Berlin) and 3 Intl. Workshops. Proceedings of these meetings were published by North Holland.

CEC international projects :

Egov Bus project, 2006 – 2008. With Rodan (Poland), Institut of CS of Polish Acad. of Sc., U. Uppsala, Axway, Microsoft European Information Center (EMIC).

The Intelligent CONTENT Management System (ICONS) project. 2001-2004 With Rodan (Poland), Institut of CS of Polish Acad. of Sc., CIES (Italy), U. Ulster (Ireland) & al.

Communication Aspects in Distributed Database Systems. 1982-1985. With Univ. of Bremen & Univ. of East Anglia). *Proj. Director*. Sponsored by COST 11 bis Program (\$200K funding).

Multidatabase Systems for Transnational Accounting. 1985 - 1986. With SWIFT (Belgium), Univ. of Dortmund & HMI (Berlin). *Proj. Director*. Sponsored by MAP-1 Program (\$1M funding).

Distributed Aspects of Information Systems (DAISY). 1986-1987. With Univ. of Helsinki, Univ. of Madrid, Univ. of Athens, GMD (RFA). *Dir. of INRIA team*. Sponsored by COST 11 ter Program (\$340K funding).

Interoperability of Heterogeneous Information Systems. 1987-1988. With Univ. of Helsinki, Univ. of Madrid, Univ. of Athens, GMD (RFA). *Dir. of INRIA team*. Sponsored by COST 11 ter Program (\$400K funding).

Foreign Prestigious Research Grants for CERIA :

IBM Almaden Research Center. Scalable Distributed Log Structured Arrays. 1998 – 2000.

Microsoft Reserch. Free MSDN software & support.

Microsoft Reserch. Applications of Scalable Distributed Data Structures on SDDS-2000 (3 grants) 1996 – 2002.

Microsoft Reserch Hardware Donation (4 fully equipped high-end PCs) for CERIA Lab.

HP Labs, Palo Alto. Scalable Distributed Data Structures. Financial Support & Hardware Donation 1994 – 1996.

Industrial Applications of Research Results

(with or without ack. by the industrial)

Multidatabases (architecture and query language capabilities, 1986-87). Main DBMSs: SQL Server, MsAccess, Oracle, Sybase, DB2, Interbase, any Web meta-search engine (multiple multidatabase queries)... Sybase was 1st one, to our best knowledge, in 87 - 88.

Linear Hash (1980). Main DBMSs: MySQL, SQL Server, DbLibrary (Oracle), Postgres, Unify DBMS, MsExchange, Netscape Suite, Revelation...

Implicit Joins (1984): MsAccess, SQL Server, DB2

Dynamic Attributes (1986): 1st in Sybase (called Computed Attributes), then several other majors, even MsAccess 2010.

Inherited Attributes (1992): MsAccess (in so-called Value Lists)

SDDS 2000 prototype and further developed at CERIA (Dauphine), exploring the technology now called RamClouds: Gemfire Data Fabrics (hash- based architecture for distributed RAM-based scalability & availability), <http://www.gemstone.com/>

Scalable Distributed Range Partitioning for key-value files, following RP*_s scheme [VLDB94]: Google (Big Table), Mongo DB, MsAzur...

Scalable Distributed Range Partitioning for relational tables, now called also “elastic database sharding” following SD-SQL Server DBMS [BNCOD2006] : ScaleBase, Xeround, AsterData....

Scalable Availability using Erasure Correcting Codes (ACM-TODS 2006) : now called also The Redundant Array of Independent Nodes (RAIN) architecture : e.g., <http://ninetechnology.com>

Honors

ACM Fellow 2001 : “For pioneering research in dynamic storage structures, scalable distributed file structures and multidatabases”. http://www.acm.org/awards/fellows_citations/litwin.html. 1st

Fellow Prize for a comp. scientist working in France. Up to 2012, - the only one handed.

New York Sciences Academy, elected in 1999.

Who's Who in the World 2012, 13 <https://cgi.marquiswhoswho.com/>

Citation : <http://www.lamsade.dauphine.fr/~litwin/who-is-who-in-the-world.jpg>

Who's Who in France. Au titre de Chercheur Universitaire. 2011, 12, 13

http://www.whoswho.fr/fr/bio/witold-litwin_66334

Intl. Biographical Centre (IBC) various (vanity) “honors”

Teaching & Tutorials :

University Paris 9 Dauphine : regular lectures on Database Systems at all levels (3 courses / semester), 1990-2014

LH*RSP2P : A Scalable Distributed Data Structure for P2P Environment. Google Tech. Talk. June 2007. <http://video.google.com/videoplay?docid=-7096662377647111009>.

SD-SQL Server: A Scalable Distributed Database System. Keynote BNCOD 2006: 23rd British National Conference on Databases July 2006

Scalable Distributed Data Structures for Virtual Repositories on Grid and P2P Systems. Keynote Address. IASTED Conference on Databases and Applications. Innsbruck, Feb. 2006

Bridging a Great Divide: Past, Present & Future of Research in Multidatabase Interoperability.

Keynote Address Intl. Workshop on Database Interoperability, InterDB 2005, Namur 2005.

Scalable Distributed Data Structures. Conference on Information and Knowledge Management (CIKM-2004), 1/2 –day tutorial. Washington Sept. 2004.

Microsoft Academic Days, Chantilly, France, Mai 2004

University Carlos V (Leganese, Spain), Scalables Distributed Data Structures, Juin 2004,

Doctoral Lectures 20h

Université de Dakar Database Systems (Cours DEA 50h), July. 2001.

University of Uppsala, Scalable Distributed & Multidatabase Systems (Invited Ph. D. Course 32h); (June. 2000).

Université de Dakar Database Systems (Cours DEA 50h), Apr. 2000.

Université de Dakar Database Systems (Cours DEA 50h), Dec. 1998.

University of Linköping. Multidatabase Systems (Invited Ph. D. Course 32h); (March. 1998).

Université de Dakar Database Systems (Cours DEA 50h), June. 1997.

Université de Dakar Database Systems (Cours DEA 50h), Oct. 1996.

University of Linköping. Multidatabase Systems (Invited Ph. D. Course 32h), Sept. 1996).

Université de Dakar, Database Systems (Cours DEA 50h), April 1995.

Santa Clara University. (March 1994 - June 94), University. Heterogeneous Multidatabase Systems (1 quarter course, 20h).

University of California at Berkeley (Aug. 1992 - June 1993) Database Systems (CS186, 2 semester courses, 32h each)

Heterogeneous Multidatabase Systems. The Stanford Computer Forum Video Journal. Lecture tape J-209, (Apr. 1993).

Santa Clara Univ. (June 1992 - July 92), Heterogeneous Multidatabase Systems (1 quarter course, 20h).

Heterogeneous Multidatabase Systems, DBExpo92, San Francisco, (March 1992)

Santa Clara Univ. (Sept. 1991 - June 1992) Introduction to Database Systems (2 quarter course, 20h each)

Santa Clara Univ. (June 1991 - July 91) Heterogeneous Multidatabase Systems (20h course)

Santa Clara Univ. (April 1991 - June 91) Introduction to Database Systems (1 course), Heterogeneous Multidatabase Systems (1 quarter course, 20h)

Dauphine Univ. (Oct 1990 - Feb 1991) Database Design, (1 course), Multidatabase Systems (2 semester courses), Advanced Data Structures (1 semester course)

Stanford Univ. (July, 1990) Multidatabase Systems. Advanced Database Systems. WICS Course, 9h.

Multidatabase Systems. Tutorial, 2nd Intl. Conf on Databases on Distributed & Parallel Systems. Dublin, (July, 1990)

Heterogeneous Database Systems. Tutorial, ACM-SIGMOD 90, Atlantic City, (May 1990)

Technical University of Vienna. Multidatabase Systems. (18h course) in Distinguish Lectures Series, (May - June, 1990).

Santa Clara University, (June 1990 - Aug. 1990), California. Heterogeneous Databases, EECS 698, (1 quarter course, 20h).

Multidatabase Systems. Tutorial, 2nd Intl. ACM-IEEE Conf. on Data and Knowledge Syst. for Manufacturing and Engineering. Oct. 1989.

Stanford University, California. (Sept. - Dec. 1989) Federated Databases. Inv. lecturer. (1 course),.

University of East Anglia, Norwich. Databases - Role and Structures. 14 - 24 September 1982, 1 day tutorial at the Intl. Conf. on Architectures for Database Systems (Stocker, P. ed.).

Visiting Scientist :

George Mason Center for Secure Information Systems (CSIS), Fairfax, VA (5 weeks June-July 2016)

North Western University, Evanston IL (1 week June 2015)

George Mason Center for Secure Information Systems (CSIS), Fairfax, VA (5 weeks June-July 2015)

George Mason Center for Secure Information Systems (CSIS), Fairfax, VA (9 weeks Summer 2014)

George Mason Center for Secure Information Systems (CSIS), Fairfax, VA (4 weeks August-Sept. 2013)

George Mason Center for Secure Information Systems (CSIS), Fairfax, VA (5 weeks March-April 2013)

George Mason Center for Secure Information Systems (CSIS), Fairfax, VA (3 weeks Dec 2012)

George Mason Center for Secure Information Systems (CSIS), Fairfax, VA (1 month April 2012)

George Mason University, Center for Secure Information Systems (CSIS), Fairfax, VA (2 weeks Feb- March 2011)

George Mason University, Center for Secure Information Systems (CSIS), Fairfax, VA (Aug. 2010)

George Mason University, Center for Secure Information Systems (CSIS), Fairfax, VA (July 2009)

George Mason University, Center for Secure Information Systems (CSIS), Fairfax, VA (May, July 2008) (2nd part of Sabbatical Semester Leave from Dauphine University)

University of California, Storage Systems Research Cntr. Santa Cruz, CA (Jan – April 2008). (1st part of Sabbatical Semester Leave from Dauphine University)

Microsoft Research, Redmond (June 2007)

University Santa Clara, CA (July. 2006)
 University Santa Clara, CA (Dec. 2004)
 University d'Uppsala (June 2000)
 IBM Almaden Resarch, San Jose, CA, (July-Sept. 1999).
 IBM Almaden Resarch, San Jose, CA, (July-Sept. 1998).
 IBM Almaden Resarch, San Jose, CA, (July-Sept. 1997).
 University of Linkoping (March 1994, June 1995, Sept 1996, March 1998).
 Microsoft Research, Redmond WA (July 1997).
 HP Research Laboratories, Palo Alto July - August 1996.
 HP Research Laboratories, Palo Alto July - August 1995.
 University of California at Berkeley Aug. 1992 - Oct 1994.
 HP Research Laboratories, Palo Alto Nov. 1991 - Oct. 1994.
 Santa Clara University, April 1991 - Sept 1992.
 HP Research Laboratories, Palo Alto March 1991 - Oct. 1991.
 HP Research Laboratories, Palo Alto March 1990 - Oct. 1990.
 Stanford University, September 1989 - October 1990.
 System Research Center (SRC) & University of Maryland Institut for Advanced Computer
 Studies (UMIACS). Sept. 1988 - Aug. 1989.
 University of Aberdeen, UK. July 1982.

Thesis Supervision :

1 Thesis completed in 2016
 1 Thesis in progress 2015
 1 Thesis completed in 2014 & 1 in progress
 2 Thesis at U. Paris Dauphine, 2013.
 6 Thesis at U. Paris Dauphine, completed 2004 - 2011,
 3 Thesis at U. Santa Clara, CA, the latest completed in 2010
 3 Thesis at U. Paris 9, 2002
 1 Thesis at U. Paris 9, 2000
 11 Thesis in France since 1983: Univ. Paris-6, Paris-Dauphine, Paris-Orsay, Paul Sabatier
 (Toulouse), University of Nancy.
 1 Thesis at Stanford University.

Patents:

LH*_{RE} : LH* with recoverable encryption. With S. Jajodia (GMU, VA) and Th. Schwarz (USC,
 CA).
 LH*_{sa} : An LH* schema with Scalable Availability. Filed by IBM Research Sep. 1998. With J.
 Menon (IBM) & T. Risch (U. Linkoping).
 LH* : Linear Hashing for Distributed Files. Filed by Hewlett Packard Laboratories, Oct., 1993.

Award Committe

ACM-Sigmod Annual Innovation Award Three-year tenure, 1995-1998

Seminars :

117 North Western U. Evanston IL, 2015
 116 National Institut of Standards & Technology (NIST), USA, March 2013 (Webinar, US-wide &
 selected other orgs.) [ppt](#)
 115 Center for Secure of Information Systems (CSIS), George Mason U., April 2012
 114 UCSB, 2011
 113 Yahoo Research, CA 2011
 112 Nokia Research 2009
 111 Nokia Research, Palo Alto, 2008
 110 Hoover Institue, Stanford, 2008
 109 Bay Area Society of Eng., Menlo Park, 2008
 108 Center for Security of Information Systems, George Mason U., 2008
 107 Google Tech Talk, 2007
 106 U. Uppsala, 2006
 105. Microsoft Research, Mountain View 2005

104. Microsoft Research, Mountain View 2004
103. Microsoft Research, Redmond 2003
102. Hania University, Crete 2003
101. University of California, Santa Cruz, 2002
100. Buffalo State Univ., 2002
99. North Western Univ., Evanston (Chicago), 2001
98. Microsoft Bay Area Research Center, San Francisco, 2001.
97. Microsoft Corp. Seattle, 2001.
96. MCC, Austin, TX, 2000
95. Maui DoD High Performance Computing Cntr., 2000
94. Microsoft Bay Area Research Center, San Francisco, 2000.
93. IBM Almaden Research, 1999.
92. Hewlett Packard, Palo Alto, 1999.
91. IBM Almaden Research, 1998.
90. IBM Almaden Research, 1997.
89. INSA, Lyon, 1996.
88. Microsoft Corp. Seattle, 1996.
87. Hewlett Packard, Grenoble, 1996.
86. Hewlett Packard Laboratories, Palo Alto, 1996.
85. Microsoft Corp. Seattle, 1995.
84. Microsoft Bay Area Research Center, San Francisco, 1996.
83. Hewlett Packard Laboratories, Palo Alto, 1995.
82. Microsoft Corp. Seattle, 1995.
81. University of California at Berkeley, 1995
80. University of California at Berkeley, 1994
79. IBM Almadene Res. Center, 1994
78. University of Lindkoping, 1994
77. Northwestern Univ., 1993
76. University of California, Santa Cruz, 1993
75. Loyola University, New Orleans, 1993
74. Xerox Parc, Palo Alto, 1993
73. University of Lindkoping, 1993
72. Rutgers University, 1993
71. Matsushita Institute of Technology (MITL), 1993
70. University of California at Berkeley , 1993
69. University of California at Santa Cruz , 1993
68. University of California at Berkeley , 1992
67. Northwestern Univ., 1992
66. Sun Microsystems, 1992
65. Rutgers University, 1992
64. Bellcore, 1992
64. Stanford University, 1992 (recorded & distr. by Stanford Instr. TV in EECS Disting. Lecture Series)
63. Santa Clara University, 1992
62. Santa Clara University, 1992
61. Stanford University, 1991
60. Purdue University, 1991
59. Hewlett Packard Res. Labs Palo Alto, 1991
58. University of Illinois, Chicago Cercle, 1991
57. University of Taiwan, 1991
56. Fujitsu Laboratories, 1990
55. Kyoto University, 1990
54. Stanford University, 1990
53. University of Santa Clara, 1990
52. Lawrence Berkeley Labs, Univ. of Calif. at Berkeley, 1990
51. Hewlett Packard Res. Labs, Palo Alto, 1990
50. IBM Res. Center, San Jose, 1990
49. Advanced Decision Systems, Palo Alto, 1990
48. Stanford University, 1990
47. Stanford Research Institute 1989

46. Contel Corporation, Washington 1989
45. Princeton University 1989
44. University of Kentucky 1989
43. System Research Center (3) 1989
42. Northwestern University 1989
41. Purdue University 1989
40. UNISYS, Santa Monica 1989
39. Univ. of Vienna, 1989
38. Schlumberger, Austin, TX. 1988
37. Austin, TX. 1988
36. Carleton University, Ottawa, 1988
35. McGill University, Montreal 1988
34. GTE Research Laboratories, Waltham, Mass. 1987
33. North Western Univ., Evanston, Ill. 1987
32. Univ. of Vienna, 1987
31. Wang Institute of Graduate Studies, Mass. 1987
30. Univ. of Vienna, 1986
29. Computer Corporation of America, 1986
28. Univ. of Maryland, 1985
27. Univ. of Wisconsin-Madison 1985
26. Honeywell Computer Science Center, 1985
25. DEC Res. Center, Colorado Springs, 1985
24. Univ. of Melbourne, 1985
23. Royal College of Technology in Melbourne, 1985
22. Database Promotion Center, Tokyo, 1985
21. Fujitsu Intl. Inst. for Advanced Social Studies, 1985
20. Univ. of Jerusalem, 1984
19. IBM Thomas Watson Res. Center, 1984
18. System Development Corporation, Santa Monica, 1984
17. ETH, Zurich, 1983
16. Univ. of Southern California, Los Angeles, 1983
15. Xerox Center, Palo Alto, 1983
14. Carlton University, Ottawa, 1983
13. North Western Univ., Evanston, 1983
12. Moore School at Pennsylvania University, 1983
11. Graduate School of Management, Univ. of Rochester, 1982
10. North Western Univ., Evanston, 1982
9. Univ. of Texas, Austin, 1982
8. Burroughs Res. Center, Austin, 198
7. Univ. of Illinois at Chicago Circle, 1982
6. Univ. of California, San Diego, 1982
5. Advanced Course on Databases : Role and Structure, Norwich 1982
4. Stanford University, 1981
3. Fujitsu Intl. Inst. for Advanced Social Studies, 1980
2. Abo Akademi, Finland, 1979
1. CSATA, Univ. de Bari, Italy, 1975

Programme Committes :

74. 6th Intl. Workshop on Databases, Inf. Systems and P2P Computing (DBISP207)
73. 2nd Intl IEEE Workshop on High Performance I/O Systems and Data Intensive Computing (HiperIO'08) at IEEE Cluster 08
72. 5th Intl. Workshop on Databases, Inf. Systems and P2P Computing (DBISP207) at VLDB07
71. 3rd International Workshop on Database Interoperability (InterDB) at VLDB07
70. 4th Intl. Workshop on Databases, Inf. Systems and P2P Computing (DBISP2P06 at VLDB 06.
69. High Performance I/O Techniques and Deployment of Very Large Scale I/O Systems (HiperIO'06) Workshop at IEEE-Cluster 2006
68. Grid and Peer-to-Peer Computing 06
67. GLOBE'06 Workshop in conj. with DEXA 06

- 66 IEEE ICDCS 2006
- 65 InterDB 2006
- 64 7-th Intl. Workshop on Distributed Data Structures, WDAS 2005, Lausanne
- 63 6-th Intl. Workshop on Distributed Data Structures, WDAS 2004, Lausanne
- 62 5-th Intl. Workshop on Distributed Data Structures, WDAS 2003, Thessaloniki
- 61 4-th Intl. Workshop on Distributed Data Structures, WDAS 2002, Paris (Gen. Chair)
- 60 Intl. Conf. on Very Large Databases, Sept 11, VLDB 2001, Rome
- 59 IFCIS Conference on Cooperative Information Systems; COOPIS 2001, Rome
- 58 IS2000, Tsukuba, 2000.
- 57. 2000 Intl. Conf. on Database and Expert Systems Applications (DEXA 2000)
- 56. 1999 Intl. Symp. on Database Applications in Non-Traditional Environments (DANTE'99)
- 55. 1999 IEEE Knowledge and Data Engineering Exchange Workshop (KDEX'99)
- 54 Fourth IFCIS Conference on Cooperative Information Systems (CoopIS'99)
- 53 Foundations of Data Organization (FODO-98), Kyoto, 1998
- 52 Intl. Conf. On Distr. Comp. Syst. (ICDCS-98), Amsterdam, 1998
- 51 Intl. Conf. on Very Large Databases 98, (VLDB 98), New York, 1998
- 50 East-European Symposium on Advances in Databases and Information Systems - ADBIS'98 (PC Chair)
- 49. Intl. Conf. on Cooperating Information Systems (COOPIS-97), New York, NY, 1998.
- 48. Intl. Conf. on Cooperating Information Systems (COOPIS-97), Charleston, NC, 1997.
- 47. IEEE Research Issues in Data Engineering, Birmigham, 1997.
- 46. Intl. Conf. on Information and Knowledge Management CIKM-96.
- 45. Intl. Conf. on Management of Data ACM-IEEE SIGMOD, Montreal, 1996 (Awards Comm.)
- 44. Intl. Conf. on Cooperating Information Systems (COOPIS-96), Brussels, 1996.
- 43. IEEE RIDE Workshop on Interoperability of Non-traditional Databases, New Orleans, USA, 1996 (Gen. Chair)
- 42. 12th IEEE International Conference on Data Engineering, New Orleans, USA, 1996 (Tutorial Chair)
- 41. 5th EDBT Intl. Conf. on Extending Database Technology, Avignon, 1996
- 40. Intl. Conf. on Management of Data ACM-IEEE SIGMOD, San Jose, 1995
- 39. 1st International Conference on Applications of Databases (PC Chair), Vadstena, 1994
- 38. 10th IEEE International Conference on Data Engineering, Houston, USA, 1994 (Panel Chair)
- 37. Foundations of Data Organization, Chicago, 1993
- 36. French-American Technological Meeting, San Francisco, 1993 (DB Track PC Chair).
- 35. Very Large Data Bases 93, (VLDB-93), Dublin, Ireland, 1993
- 34. 9th IEEE International Conference on Data Engineering, Viena, Austria, 1993 (Prog. Com. V-Chair)
- 33. IFIP TC2 Conf. on Semantic Issues for Interoperating Databases (DS-5), Australia, Nov. 1992
- 32. French-American Technological Meeting, San Francisco, 1992 (DB Track PC Chair).
- 31. 2nd Intl. Workshop on Res. in Data Engineering: Transaction and Query Processing, Tempe AR., 1992
- 30. 8th IEEE International Conference on Data Engineering, Phoenix, 1992 (Prog. Com. V-Chair)
- 29. 3rd EDBT Intl. Conf. on Extending Database Technology, Viena, 1991
- 28. Intl. Conf on Spatial Data Structures, 1991
- 27. 1st IEEE Intl. Workshop on Multidatabase Systems, IMS-91, Kyoto, 1991
- 26. 7th IEEE International Conference on Data Engineering, Kobe, 1991 (Europ. Coord)
- 25. 6th IEEE International Conference on Data Engineering, Los Angeles 1990
- 24. Intl. Conf. on Management of Data ACM-IEEE SIGMOD, Atlantic City, 1990
- 23. 1st Intl. Conf. on System Integration, New Jersey, 1990
- 22. Very Large Databases 90, (VLDB 90), Brisbane, Australia, 1990
- 21. IEEE - ACM 2st Symposium on Databases in Parallel & Distributed Systems, Dublin, Irlande, 1990.
- 20. Very Large Data Bases 89, (VLDB-89), Amsterdam, 1989
- 19. Foundations of Data Organization, Paris, 1989 (Prog. Com. Co-chairman)
- 18. 5th IEEE International Conference on Data Engineering 1989 (Intl. Coord.)
- 17. Intl. Symp. on Databases in Parallel and Distr. Syst., 1988
- 16. Data & Knowledge Bases, Jerusalem, 1988 (European Vice Chairman)
- 15. European Conf. on Teleinformatics, EUTECO 88, Vienne, 1988
- 14. Intl. Conf. on Management of Data ACM-IEEE SIGMOD, Chicago 1988, (Prog. Com. & Intl. Coordinator)
- 13. Very Large Data Bases 87, (VLDB-87), Brighton, 1987
- 12. 4th IEEE International Conference on Data Engineering 1987 (Prog. Com. Co-chairman)

11. 3rd IEEE Intl. Conf. on Data Engineering 1986
10. Very Large Data Bases 85, (VLDB-85), Stockholm, 1985,
9. 2nd Intl. Conf. on Databases (ICOD-2), Cambridge, 1983
8. 3rd Sem. on Distributed Data Sharing Systems, Amsterdam, 1984
7. 4th IEEE Symp. on Reliability in Distr. Software and Database Systems, Maryland, 1984
6. ACM-SIGMOD, 1983
5. 2nd Intl. Symp. on Distributed Data Bases, Berlin, 1982
4. 2nd Intl. Conf. on Databases-Improving Usability and Responsiveness, Jerusalem, 1982
3. 2nd Intl. Sem. on Distr. Data Sharing Systems, Amsterdam, 1981
2. 1st Intl. Symp. on Distributed Data Bases, Paris, 1980 (The Organizer)
1. 1st Intl. Sem. on Distr. Data Sharing Systems. Aix en Provence, 1979 (Co-organizer)

Publications :

Number of Citations at Google Scholar on March 21, 2017 : **7135**, with **830** since 2012.

1. Journals :

31. AS-Index: A Structure for String Search Using n-Grams and Algebraic Signatures. J. Comput. Sci. Technol. 31(1): 147-166 (2016) By Camélia Constantin, Cédric du Mouza, Philippe Rigaux, Thomas J. E. Schwarz.
30. Recoverable Encryption through a Noised Secret over a Large Cloud. Intl. Journal on Large-Scale Data and Knowledge-Centered Systems (TLDKS 2015) (Invited paper). Springer (Publ.) By Sushil Jajodia, Witold Litwin, Thomas Schwarz.
29. Combining Chunk Boundary and Chunk Signature Calculations for Deduplication. IEEE Latin America Transactions, 2011. With D. E. Long & al. In Spanish.
28. Large Scale Indexing of Spatial Data in Distributed Repositories: The SD-RTree. VLDB Journal, 2009. With C. duMouza & Ph. Rigaux
27. LH*RS—A Highly-Available Scalable Distributed Data Structure. ACM Transactions on Data Base Systems. October 2005. With Rim Moussa & Th. Schwarz.
26. LH*g : a High-availability Scalable Distributed Data Structure by Record Grouping. IEEE Transactions on Knowledge and Data Engineering, 14, 4, JULY/AUG. 2002. Avec T. Risch.
25. LH* - A Scalable Distributed Data Structure. ACM Transactions on Data Base Systems. December 1996. With M-A Neimat, D. Schneider.
24. An Economic Paradigm for Query Processing and Data Migration in Mariposa. The VLDB Journal. With Stonebraker, M. & al., Vol 5, 1, Jan. 1996.
23. Mariposa: A New Architecture for Distributed Data. ACM Trans. Comp. Sys. (TOIS) 2(1), Feb. 1994. With Stonebraker M. & al.
22. Chronological Scheduling of Transactions with Temporal Dependencies. VLDB Journal 1993. With Georgakopoulos, D. Rusinkiewicz, M. The VLDB Journal, Vol. 2, No. 6, 1993
21. Query Languages for Relational Multidatabases. The VLDB Journal, Vol. 2, No. 2, April 1993, 153-171. With Grant, J., Roussopoulos, N., Sellis, T.
20. Main Memory Oriented Optimization of OO Queries using Typed Datalog with Foreign Predicates. IEEE Transactions on Knowledge and Data Engineering, 4, 6, (Dec. 1992). With Risch, T.
19. The Pegasus Heterogenous Multidatabase System. IEEE Computer. 24, 12, (Dec. 1991), 19-27. With Ahmed, R. & all.
18. First Order Normal Form for Relational DBs & MDBs. SIGMOD RECORD, 20, 4, 1991, 74-76. Special Issue: Semantic Issues in Multidatabase Systems. With Ketabchi, M., and Krishnamurthy, R.
17. Trie Hashing with Controlled Load. IEEE Transactions on Software Eng., 17, 7 (July 1991), 678 - 691. With Roussopoulos, N., Levy, G., Wang, H.
16. Interoperability of multiple databases (in Japanese). Special Issue "ACM Computing Surveys '90 (selected papers)", BIT 115-140. Translation of (15), 1991.
15. Interoperability of multiple databases. ACM Computing Surveys, (Sept. 1990). With Mark, L., Roussopoulos, N.
14. From Database Systems to Multidatabase Systems : Why and How. Database Technology, 2, 1990. Reprint of Conf. paper (35).
13. Extending the concept of transaction to provide more meaning. SIGMOD Record, March 1990. With Rusinkiewicz, M., Elmagarmid, A.

12. Concurrency Control for Trie Hashing. *Acta Informatica*, 26, 7, 1989, 597-614. With Vidyasankar, W., Sagiv, Y.
11. MSQL : A multidatabase Language. *Information Science Journal : Special Issue on Database Systems*, 48, 2, (July 1989). With Abdellatif, A., & al.
10. Flexible Concurrency Control using Value Dates. *IEEE Distributed Processing Techn. Newsletter. Special Issue on Heterogeneous Distributed Databases*. Vol. 10, 2, Nov. 1988, 42 - 49. With Tirri, H.
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