

Curriculum Vitæ of Patrick Valduriez

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Nationality: French
Born: 12 may 1955 in Calais, France
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Position: Director of Research (DR0/2) at INRIA- Sophia Antipolis Méditerranée
Assignment: Manager of the Zenith team (scientific data management)

EDUCATION

- 1985:** “Doctorat d’Etat” in computer science, University Paris 6, 20 sept. 1985.
Title: "Optimization of relational operators in database machines". Committee: M. Adiba (U. Grenoble), F. Bancilhon (MCC, Austin), D. DeWitt (U. Wisconsin), Ph. Flajolet (INRIA), G. Gardarin (U. Paris 6), C. Girault (U. Paris 6).
- 1981:** Ph.D. in computer science (Doctorat de 3ème Cycle), University Paris 6, 16 dec. 1981.
Title: "Design and implementation of a join and sort processor for a database machine".
Committee: M. Adiba (U. Grenoble), F. Bancilhon (U. Paris Sud), G. Gardarin (advisor, U. Paris 6), C. Girault (U. Paris 6), J. Lebihan (INRIA).
- 1980:** Ms. in computer science (DEA), University Paris 6.
- 1977:** Bs. in computer science (maîtrise), University Paris 6.

RESEARCH INTERESTS

Data management, databases, distributed and parallel data management, scientific data management, workflow management, data engineering, distributed software testing, transaction management, replication, query processing, performance evaluation, large-scale distributed and parallel computing (P2P, cluster, grid, cloud computing).

RANKING

- My h-index (by entering “Patrick Valduriez” on <http://code.google.com/p/citations-gadget/> on feb. 2, 2013 was **45**.
- Ranked first, competition for Director of Research of Exceptional Class level 2 (DR0/2) at INRIA, 2010.
- Selected, competition for Director of Research of Exceptional Class (DR0) at INRIA, 2007.
- Ranked first, competition for Director of Research of First Class (DR1) at INRIA, 1995.
- Ranked first, competition for Director of Research of Second Class (DR2) at INRIA, 1989.

DISTINCTIONS AND AWARDS

- ACM Fellow, 2012.
- Who's Who in France, 2010.
- Selected among the (two) best papers of Globe2010 for Journal of Transactions on Large-Scale Data and Knowledge-Centered Systems (Springer) for “Continuous Timestamping for Efficient Replication Management in DHTs”.
- Best paper award of Colibri2009 for “SARAVÁ: data sharing for online communities in P2P”.
- Selected as second best paper of ISSRE2008 for Empirical Software Engineering Journal for “A Framework for Testing Peer-to-peer Systems”.
- **Best paper award of VecPar2008** for “High-performance Query Processing of a Real-world OLAP Database with ParGRES”.
- **Nominated for best paper (top 4) of ESWC2008** for “Improving Interoperability Using Query Interpretation in Semantic Vector Spaces”.
- Selected for International Journal of High Performance Computing and Networking (*special issue on best papers of SBAC 2005*) for “Physical and Virtual Partitioning in OLAP Database Clusters.”
- **Best Paper Award of VLDB2000** for “PicoDBMS: Scaling down Database Techniques for the Smartcard”.
- Nominated for best paper (top 3) of SBBD2003 for “Cherry Picking: a semantic query processing strategy for the evaluation of expensive predicates.”
- Selected for Network and Information Systems Journal (*special issue of best papers of CIKM 1998*) for “Dynamic Memory Allocation for Large Query Execution”.
- **IBM France Scientific Prize in Computer Science, 1993.**

PROFESSIONAL EXPERIENCE

Since 2011 Manager of Zenith (Scientific Data Management) an INRIA team (20 researchers and Ph.D students) at LIRMM, Montpellier.

Zenith addresses the three main challenges of scientific data management: scale (big data, big applications); complexity (uncertain, multi-scale data with lots of dimensions); heterogeneity (in particular, data semantics heterogeneity). We strive to propose innovative solutions with significant advantages in terms of scalability, functionality, ease of use, and performance. We plan to design and validate our solutions by working closely with scientific application partners.

Sept 2002 – 2010 Manager of Atlas (ATLantic dAta Systems), an INRIA project-team (25 researchers and Ph.D students) on complex data management in distributed systems, Nantes and Montpellier.

Atlas was a team distributed between INRIA-Rennes Bretagne Atlantique, Nantes, and INRIA-Sophia Antipolis, Montpellier, with the objective of supporting complex data in the context of data grid computing, with large-scale distribution and parallelism. To scale up to very numbers of nodes, we use a P2P approach. To ease large-scale data integration, we use a model-driven data engineering approach. Atlas has succeeded in a major technology transfer with two model-driven data engineering tools: the Atlas Transformation Language (ATL) and Atlas Model Weaver (AMW), now standard tools on the Eclipse platform as Open Source Softwares.

Sept 2000 – August 2002: Professor of Computer Science at Université Pierre & Marie Curie (Paris 6), on leave from INRIA, and researcher at Laboratoire d'Informatique de Paris 6 (LIP6), Database group.

Work on supporting autonomous databases and applications in large Linux-based clusters, addressing the issues of advanced transaction and replication models and load balancing to increase parallelism. In this context, I have started the RNTL funded project Leg@net (2002-2004) with Prologue Software and ASPLine to deal with legacy database application in an Application Service Provider context.

April 1996 – march 2001: Director of Dyade (Bull-INRIA), 50 researchers and engineers, Rocquencourt.

The Dyade R&D joint venture has associated Bull and Inria for 5 years to foster the development of basic technologies for advanced information systems. The joint venture had 50 people (Bull engineers and Inria researchers). Dyade has been considered a great success with several technology transfers in Bull products (Safetech, IPv6, OpenMaster, Netwall) and four startups: TrustedLogic (formal methods for security) in 1998, Kelkoo (now number one Internet buying guide in Europe) in 1999, JaliOS (collaborative editing) in 2000 and Scalagent (software agents) in 2001. Kelkoo uses the Disco technology which I developed in the Rodin project.

June 1989 – June 1999: Manager of the Rodin project team, 20 researchers and Ph.D. students, INRIA Rocquencourt.

The general objective of the Rodin group was to design and experiment with advanced database techniques. The Rodin group has been internationally recognized for major contributions in query processing for distributed and parallel systems, and distributed object management. The Rodin group achieved several technology transfers to industry, including the Distributed Information Search Component (Disco) which INRIA licensed to Kelkoo in 1999.

January 1987– May 1989: Team leader, 6 people, Microelectronics and Computer Technology Corp. (MCC), Austin, Texas.

Responsible for the design and implementation of FAD, a database programming language for a parallel computer (Bubba), and its compiler/optimizer. A working prototype was available in early 1989 for a 40 node Flexible parallel computer, and eventually transferred to MCC shareholders. In particular, it was the basis for NCR's Navigator product (developed with Sybase) in 1994.

December 1984 – January 1987: Researcher, MCC, Austin, Texas.

Design and implementation of a parallel database system prototype on a network of Sun workstations. The prototype includes the concept of Join Index which I invented to speed up complex query processing in 1986. Since then, all the major DBMS vendors have implemented join indices.

January 1982– December 1984: Researcher, INRIA, Rocquencourt.

Leader of a Query Processor team with 4 Ph.D. students. Design and implementation of a query processor for a relational DBMS on Multics (DPS8) and Unix (SM90). The technology was transferred into the Sabrina DBMS product to Infosys, a startup created by INRIA researchers.

October 1979– December 1981: Ph.D. Student, INRIA, Rocquencourt.

Design and implementation of parallel algorithms for the execution of relational operators in databases. One of the first demonstrations of the superiority of hashing for parallel query processing.

December 1977– September 1979: Volontaire du Service National Actif (Military duty), Office Béninois d'Informatique, Cotonou, Bénin.

Design and implementation of a large banking application on a mainframe system (Honeywell-Bull HB68 running the GCOS operating system). Maintenance of statistical applications.

SOFTWARE AND TECHNOLOGY TRANSFER

Commercial products

- **DISCO (Distributed Information Search Component), Kelkoo 1999.** Disco is a data integration system developed in the Rodin group (in the context of Dyade with Bull) between 1995 and 1999. I led the Disco team (A. Tomasic – architect, H. Naacke and three Ph.D. students), participated in the design of Disco and transferred it to Kelkoo (now number one Internet buying guide in Europe and a Yahoo company) in 1999. INRIA sold a license of Disco to Kelkoo for 1M€uros. We registered Disco to APP (Agence pour la Protection des Programmes) in 1999; my contribution to the product is 20%. According to INRIA Transfer's head Laurent Kott, this technology transfer was exemplary.

- **Garbage collector, O2 Technology, 1997.** With M. Skubiszewski (then CR1 in my Rodin group), we designed a concurrent garbage collector for the O2 DBMS in 1997. The technology has been transferred into the product by M. Skubiszewski. My contribution is about 20%. We described the technology in a VLDB1997 paper.
- **Navigator, NCR 1989.** Navigator is a parallel query processor commercialized by NCR with Sybase in 1994. It was later on integrated in NCR's flagship product Teradata (the best selling DBMS product for very large databases). NCR has used the technology which I developed in the FAD query processor at MCC (my contribution = 40%). The technology transfer was done by Brian Hart, a member of my FAD team at MCC.
- **Sabrina, Infosys 1984.** Sabrina is a relational DBMS which we developed in the SABRE group (headed by G. Gardarin) at INRIA-Rocquencourt. It has been transferred to Infosys, an INRIA startup, and sold at a hundred copies. I developed the query processor and part of the execution system (relational operator algorithms), i.e. about 20% of the product.

Open Source Software products

- **WebSmatch (Web Schema Matching): <http://websmatch.gforge.inria.fr/>.** WebSmatch is a flexible, open environment for discovering and matching complex schemas from many heterogeneous data sources over the Web. It provides three basic functions: (1) metadata extraction from data sources; (2) schema matching (both 2-way and n-way schema matching), (3) schema clustering to group similar schemas together. WebSmatch is being delivered through Web services, to be used directly by data integrators or other tools, with RIA clients. Implemented in Java, delivered as Open Source Software (under LGPL) and protected by a deposit at APP (Agence de Protection des Programmes). WebSmatch is being used by Datapublica and CIRAD to integrate public data sources.
- **P2Prec (P2P recommendation service): <http://p2prec.gforge.inria.fr>.** P2Prec is a recommendation service for P2P content sharing systems that exploits users social data. To manage users social data, we rely on Friend-Of-A-Friend (FOAF) descriptions. P2Prec has a hybrid P2P architecture to work on top of any P2P content sharing system. It combines efficient DHT indexing to manage the users FOAF files with gossip robustness to disseminate the topics of expertise between friends.
- **ProbDB (Probabilistic Database): <http://probdb.gforge.inria.fr>.** ProbDB is a probabilistic data management system to manage uncertain data on top of relational DBMSs. One of the main features of the prototype is its portability; that means with a minimum effort it can be implemented over any DBMS. In ProbDB, we take advantage of the functionalities provided by almost all DBMSs, particularly the query processing functions. It is implemented in Java on top of PostgreSQL.
- **ATL (Atlas Transformation Language): 2004-2006.** ATL is a transformation-based model management framework, with metadata management and data mapping as the main applications. It comes with a library of more than 100 transformation components. ATL has been registered in 2004 (by INRIA, TNI-Software and the University of Nantes) to the APP. The main authors of ATL are J. Bézivin (20%), F. Jouault (60%) and myself (10%). ATL is released as Open Source Software under the Eclipse Public Licence and available as an Eclipse plugin. The average number of downloads is 675 per month. There is now an active community of more than 100 user sites, including research labs and major companies (Airbus, NASA, Ilog, Sodius, TNI, etc.). ATL has been selected by two competitiveness centers in France: System@tic and TopCased. In early 2007, *ATL was recognized a standard Eclipse component for model transformation* (see http://www.eclipse.org/gmt/news/#newsGMT_20070115_A).

- **AMW (Atlas Model Weaver): 2004-2006.** AMW is a component-based platform for model weaving, i.e. establishing and managing correspondences between models, with data integration as main application. AMW has been registered in 2005 (by INRIA and the University of Nantes) to the APP. The authors of ATL are J. Bézivin (20%), F. Jouault (10%), M. Didonet del Fabro (20%) and myself (20%). AMW is released as Open Source Software under the Eclipse Public Licence and available as an Eclipse plugin. The average number of downloads is 210 per month. AMW is being used by more than 40 user sites, including research labs and major companies (NASA, BAE, Versata, Obeo, etc.).
- **APPA (Atlas P2P Architecture): 2006-2009.** P2P data management system that provides scalability, availability and performance for applications that deal with semantically rich data (XML, relational, etc.). APPA provides advanced services such as queries, replication, privacy, and testing. It has been implemented on top on various P2P networks such as JXTA, OpenChord and Pastry and tested on GRID5000 and PlanetLab. The current services of APPA are (see below): KTS, SbQA, P2P-LTR and PeerUnit. A privacy service (Priserv) is being implemented. The APPA services have been used in several projects: Strep Grid4All, ANR RNTL Xwiki Concerto and ANR VERSO DataRing. My contribution to APPA is about 20%.
- **KTS (Key-based Timestamp Service): 2007-2009.** A distributed service to manage timestamps in DHTs. It is useful to solve various DHT problems which need a total order on operations performed on each data. KTS has been initially proposed to support data currency in DHTs, i.e. the ability to return a current replica in a DHT despite peers leaving the network or concurrent updates. Experimental validation has shown that KTS incurs very little overhead in terms of communication cost. KTS is the basis for the P2P-LTR service. It has been implemented in Java on top of OpenChord.
- **P2P-LTR (P2P Logging and Timestamping for Reconciliation): 2007-2009.** Provides two major functions: logging of user actions in a DHT and continuous, distributed timestamping of these actions. This is useful to perform reconciliation of replicated data. P2P-LTR extends KTS with continuous timestamping and logging of actions. To perform reconciliation using P2P-LTR, we use a simple reconciliation algorithm based on operational transforms, called SB, from the ECOO team at LORIA and readily available as Open Source Software. P2P-LTR has been implemented in Java on top of OpenChord. It has been validated in the Strep Grid4All and RNTL Xwiki Concerto projects to perform reconciliation of replicated documents in a P2P wiki system.
- **SbQA (Satisfaction-based Query Allocation Framework): 2007-2009.** Query allocation framework for distributed environments where consumers and providers are autonomous and have special interests towards providers and queries, respectively. We experimentally demonstrated that it ensures good system performances while satisfying consumers and providers. Hence, SbQA can scale-up in these environments by preserving the total system capacity, i.e. the aggregate capacity of all providers. SbQA is used in the Strep Grid4All project as the basis to perform selection of services proposed by market-places as well as altruist contributors. SbQA is implemented in Java.
- **PeerUnit (Peer-to-Peer Tester): 2006-2009.** Testing framework for P2P systems. It is useful to developers who want to implement unit tests for a Java P2P system. The framework is based on two original aspects: (i) the individual control of peers volatility and (ii) a distributed testing architecture to cope with large numbers of peers. A distributed component, the tester, executes on peers, and controls their execution and their volatility, making them leave and join the system at any time, according to the needs of a test. Furthermore, testers communicate with each other across a balanced tree (B-Tree) structure to avoid using a centralized testing coordination. Peerunit is implemented in Java and has been validated on two popular open-source P2P systems (FreePastry and OpenChord).

- **RepDB*: 2002-2005.** RepDB* is a data management component for replicating autonomous databases or data sources in a cluster system. It is implemented in Java on Linux and supports various DBMS: Oracle, PostgreSQL and BerkeleyDB. It has been validated on GRID5000 with a 64 node cluster. At the end of 2004, RepDB* was registered (by INRIA and the University of Nantes) to the APP. The authors of RepDB* are C. Coulon (25%), G. Gaumer (10%), E. Pacitti (50%) and myself (15%). RepDB* was released as Open Source Software under the GPL licence. There has been more than 2000 downloads in the first months of release.

Research prototypes

- **PicoDBMS: 1999-2001.** PicoDBMS is a lightweight DBMS embedded in a smartcard for secured folders. PicoDBMS is now developed in the Smis group at INRIA-Rocquencourt. I participated in the design of the first version of PicoDBMS with L. Bouganim and P. Pucheral in 1999-2000 (my contribution = 25%). We obtained the VLDB2000 best paper award for the design of PicoDBMS. We also demonstrated the first prototype in Javacard at VLDB2001. The latest version of PicoDBMS is being evaluated by Gemalto, a world leader in smartcard technology.

PROFESSIONAL ACTIVITIES

Management of research and R&D

- Manager of the Atlas INRIA project team (25 researchers) at LINA (since sept. 2002).
- Director of European programs and international affairs, LINA (since 2003).
- Director of GIE Dyade between Bull and INRIA (50 researchers and engineers) (1996-2001).
- Manager of the Rodin INRIA project team (25 researchers) at INRIA-Rocquencourt (1989-1999).
- Leader of the FAD team (6 researchers) at MCC, Austin, Texas (1987-1989).
- Leader of the Query Processor team (4 Ph.D. students) in the SABRE group, INRIA-Rocquencourt (1982-1984).

Administration of research

- Member of ACM SIGMOD steering committee, 2001-2004.
- Elected trustee of the VLDB Endowment, 1993-1997.
- Member of the BDA steering committee (since 1990).
- Member of the ACI GRID scientific committee, Ministry of Research (2002-2004).
- Director of the GDR BD, Ministry of Research (1989-1993).
- President of the Database technical committee of AFCET (1989-1993).

Associate editor of international journals

- Transactions on Database Systems, Association for Computing Machinery (1993-1998).
- The VLDB Journal, Springer (1998-2001, 2012-now)
- Int. Journal on Intelligent and Cooperative Database Systems, World Scientific (1998-2002).
- Proceedings of the VLDB Endowment (since 2009).
- Int. Journal on Distributed and Parallel Database Systems, Kluwer Academic Publishers (since 1998).
- Journal of Information and Data Management (since 2010).
- Internet and Databases: Web Information Systems, Kluwer Academic Publishers (since 2002).
- Information System Engineering, Hermes.
- Network and Information Systems Journal, Hermes (Editor-in-Chief, 1997-2000).

General chair of international conferences

- **Int. Conf. on Very Large Data Bases (VLDB), Lyon, 2009 (750 participants).**
- **Extending Database Technology (EDBT), Nantes, 2008 (350 participants).**
- High-performance Data Management in GRIDs (HPDgrid), Rio de Janeiro, 2006 (50 participants).
- **ACM-SIGMOD Int. Conf., Paris, 2004 (650 participants).**
- International Workshop on Information Integration on the Web, Rio de Janeiro, 2001 (100 participants).

Program committees of international conferences

- ACM-SIGMOD Int. Conf.: 1986, 1988, 1990, 1991, 1995, 1997 (PC chair), 1998, 2001, 2004, 2007, 2008, 2011.
- Int. Conf. on VLDB: 1982, 1988, 1989, 1993, 1994, 1995, 1998 (industrial program chair), 1999 (European PC chair), 2000, 2002, 2003 (industrial program), 2005, 2006, 2007, 2008, 2011
- IEEE Int. Conf. on Distributed Computing Systems: 2007 (data management track chair).
- EuroPar : vice-president (2005), president (2006) of Distributed and Parallel Databases track.
- Int. Conf. on Web Information System Engineering (WISE), 2003.
- Int. Conf. on Distributed and Parallel Information Systems: 1991, 1993 (PC chair).
- IEEE Int. Conf. on Data Engineering: 1986, 1987, 1988, 1989, 1992, 2003, 2007 (ind. Prog. Chair), 2011.
- Int. Conf. on Extending Data Base Technology: 1990, 1992, 1996, 2010
- Journées Bases de Données Avancées (BDA) : 1990 (PC chair), 1992 (conference chair), 1994, 2001, 2003, 2007.
- etc.

Expert for international and national organizations

- National Science Foundation (NSF).
- Commission of the European Communities (programme ESPRIT).
- United Nations University (UNU)
- Canadian Research Council.
- North Atlantic Treaty Organization (NATO).
- German Israeli Foundation for Scientific Research and Development.
- Centre National de la Recherche Scientifique (CNRS).
- Agence Nationale pour la Valorisation de la Recherche (ANVAR).
- Réseau National de la Recherche en Télécommunications (RNRT)
- Agence Nationale pour la Recherche (ARA Masse de Données, ARA Sécurité)

Consultant in IT for major companies

- MCC, HP Labs, Lucent Bell Labs, Microsoft, NERA, LECG, Birdstep in USA
- Technology Training Corp. in Australia
- Consist in Brazil
- ESA, Eurocontrol, NATO, Shell, Ask (Ingres), TTI in Europe
- Bull, CAP Gemini, Matra Marconi Space, Schlumberger, Sodifrance, Orsys in France

TEACHING ACTIVITIES

Textbook

The book *Principles of Distributed Database Systems*, co-authored with professor Tamer Özsu, U. Waterloo, published by Prentice Hall in 1991, 1999 (2nd edition) and by Springer in 2011 (3rd edition – 850 pages) has become the standard book for teaching distributed databases in universities all over the world at the graduate and undergraduate levels. Our Web site features course material, exercises, and direct communication with professors.

Teaching while professor at U. Paris 6, 2000-2002 (2 years, 192 hours/year)

Key-words: Databases, Object Technology, Distributed Databases
Public: Bs. (Licence 3) and Ms. (Master 1, Master 2)

Teaching for professional schools since 1980 (about 50 hours/year)

Key-words: Databases, Distributed Information Systems, XML
Public: Engineers, project managers
Schools: Capgemini Institut, Orsys Formation

Teaching since 2009 (about 12 hours/year)

Key-words: Distributed and parallel data management
 Public: Ms. (Master 2)
 Schools: U. Montpellier 2

Teaching in 1980 - 2009 (about 30 hours/year)

Key-words: Databases, Object Technology, Distributed Systems, Parallel Systems
 Public: Ms. (Master 1, Master 2)
 Schools: Paris 6, UVSQ, ESSEC, ENST, EMN, U. Nantes

INVITED TALKS AND TUTORIALS**Main invited talks**

- “Principles of distributed Data Management in 2020?” Int. Conf. on Databases and Expert Systems Applications (DEXA), Toulouse, France, 2011.
- “Cloud Data Management”, DNAC Congress; Paris, 2010.
- “L’internet social (ou Web 2.0): opportunités, impact et défis”, Séminaire Inter-universitaire de Philosophie et d’Histoire des Sciences (HiPhis), Montpellier, 2010.
<http://www.paroledercheurs.net/spip.php?article768>.
- “Data Management in Large-Scale P2P Systems”, Int. Conf. on High-performance Computing for Computational Science (Vec-Par), Valence, 2004.
- “From XML to Universal Web Data Exchange”, UFRJ, Rio de Janeiro, 2000.
- “Enterprise Application Servers”, Embratel Conf., Sao Paulo, 1999.
- “Intranet et Systèmes d’Information Distribués”, Conf. Rubis, Lausanne, 1998
- “The Dyade R&D joint venture”, Bell Labs, USA, 1998.
- “Intranet et Groupware”, Conf. de l’association des informaticiens du Magreb, Rabbat, 1997.
- “Parallel and Distributed Database Systems”, Int. Conf. on Parallel and Distributed Computing Systems, Dijon, 1996.
- “Databases and Web”, Conf. Africaine sur la Recherche en Informatique (CARI), Libreville, 1996.
- “Query Processing in the IDEA System”, Colloquium Series, U. d’Alberta, Edmonton, 1995.
- “Databases and parallelism”, Conf. ORAP, Paris, 1995.
- “Rule-based Query Processing in the IDEA System”, Int. Symp. on Advanced Database Technologies and their Integration, Nara, Japon, 1994.
- “Advances in Distributed Database Systems”, Pre-VLDB Int. Workshop, Rio de Janeiro, 1994.
- “Parallel Database Systems : the case for shared-something”, IEEE Int. Conf. on Data Engineering (ICDE), Vienne, 1993.
- “Object Database Systems ”, Asian Institute of Technology, Bangkok, 1993.
- “Query Processing in the EDS Parallel Database System”, Brazilian Symp. on Databases, Rio de Janeiro, 1990.
- “Parallel Recursive Query Processing in a Shared Nothing Data Server”, Journées BDA, Benodet, 1988.
- Others : U. of Washington (2007), EPFL (2005), U. Waterloo (2005), Bell Labs. (1998, 1997), HP Labs. (1995), IBM Almaden Research (1993), U. Maryland (1993), GTE Labs. (1993), UT Austin (1993), MCC (1993), etc.

Main tutorials

- “XML and Data Management”, Consist Days, Sao Paulo, Brazil, 2002.
- “Information Integration with XML” Journées BDA, Agadir, Marocco, 2001.
- “XML and software engineering”, ICSSEA, Paris, 2000.
- “Intranet and Distributed Information Systems”, Journées BDA, Tunis, 1998.
- “Object Databases”, DBWorld, Londres, 1995.
- “Distributed Databases”, Europ.Sem. on Advances in Distributed Systems, Alpe d’Huez, 1995.
- “Parallel Databases”, Journées BDA, Clermont-Ferrand, 1994.
- “Object Database Systems”, TOOLS Europe, Versailles, 1993.
- “Distributed Databases”, Journées BD3, Trégastel, 1992.

- “Object Databases”, Int. Conf. on VLDB, Vancouver, 1992.
- “Object Technology”, Int. Conf. on DKSME, Lyon, 1992.
- “Object Database Systems”, Schlumberger Int. Conf., Versailles, 1991.
- “Object and Distributed Database Systems”, Database school, La Trobe Univ., Melbourne, 1991.
- “Interoperable Database Systems”, EDBT School, Algheiro, 1991.
- “Parallel and Distributed Database Systems”, Int. Conf. on VLDB, Brisbane, 1990.
- “Parallel Databases”, Journées BDA, Montpellier, 1990.

RESEARCH GRANTS

European grants

1. STREP Grid4All with France Telecom R&D, Kungliga Tekniska Hogskolan (Sueden), SICS (Sueden), ICCS (Greece), University of Piraeus Research Center (Greece), Universitat Politècnica de Catalunya (Spain), Rededia S.L. (Spain), 2006-2008 (3 years) 200 Keuros.
2. IP ModelPlex with Thales Research TRT, Thales Information Systems, Softeam, IBM Belgium, Fraunhofer Gesellschaft, WesterGeco, IBM Israël, University of York, Universidad Politecnica de Madrid, UPMC, Fundacion European Software Institute, Adaptive Limited, XJTech, Xactium, Imbus AG, SINTEF, Sodifrance-MIA Software, Technical university Braunschweig, University Dresden, Telefonica, CEA, SAP., 2006-2009 (3 years), 335 Keuros.
3. IP Modelware with Thales, Softeam, IBM UK, As Aprove, Enabler Informatica, Telenor Communication, France Telecom, Logon Technology Transfer, Fraunhofer Gesellschaft, WesterGeco, IBM Israël, University of York, Universidad Politecnica de Madrid, UPMC, Fundacion European Software Institute, Adaptive Limited, Imbus AG, SINTEF, Interactive Objects Software, 2004-2006, 330 Keuros.
4. ESPRIT Long Term Research DWQ (Data Warehouse Quality) with universities of Athens, Rome, and Aarhen, 1996-1999, 200 Keuros.
5. ESPRIT 3 A Middleware to Interoperate with Multiple data Sources (Miroweb) with Bull, Ibermatica, OSIS, GMD, 1997-1999 (2 years), 200 Keuros.
6. ESPRIT 3 Intelligent Database Environment for Advanced Applications (IDEA) with Bull, ICL, ECRC, 1992-1994 (3 years), 500 Keuros.
7. European Declarative System (EDS) with Bull, ICL, Siemens, ECRC, Infosys, ESPRIT 2 EP2025, 1989-1992 (4 years), 600 Keuros.
8. Fully Integrated Data Environment (FIDE) with U. Glasgow, St Andrews, Pisa, Hamburg, ESPRIT 3 BRA 6309, 1992-1995 (3 years), 150 Keuros.

Industrial grants

1. Model engineering and data management, Microsoft Research, 2003-2006, 80 Keuros.
2. Model management; IBM/Eclipse, 2004-2005, 20 Keuros.
3. Study of access to distributed catalogs, Alcatel Space Industries, 2000, 15 Keuros..
4. Study of Nutrition database techniques, Nutrimate, 1999 (3 months), 10 Keuros.
5. Development of an information mediator. Bull, 1997, 30 Keuros.
6. Coupling of a C++ preprocessor with an extensible schema manager. CNET-Lannion, 1993-1994 (1 year), 50 Keuros.
7. Study of persistent data management techniques in a OO language, CNET-Lannion, 1990-1991 (1 year), 40 Keuros.

Main national grants

1. PREDIT EPILOG with Euxenis SAS and RISC Solutions d'Assurances, 2009-2011, 60 Keuros.
2. ANR VERSO DataRing with Gemo (INRIA Saclay), Telecom Paristech, LIG, LIRMM, 2009-2011, 200 Keuros.
3. RNTL XWiki Concerto with XPertNet, ObjectWeb, INRIA, ENST, Mandriva, EISTI, 2007-2008, 150 Keuros.

4. RNTL OpenEmbeDD with INRIA, CEA-List, France Telecom R&D, AIRBUS, AnyWare, CS/SI, LAAS, Thales Avionics, Verimag, Thales Research TRT, 2006-2008, 70 Keuros.
5. ARA Masses de Données Respire with INT, LIP6, Paris (IRISA), Regal (INRIA).} {2006-2008}, 80 Keuros.
6. ARA Masses de Données MDP2P with Gemo (INRIA-Futurs), Paris (IRISA), Texmex (IRISA), 2003-2006, 80 Keuros.
7. RNTL Legacy applications on the Net (Leg@net) Prologue Software, ASPLine, 2002-2003, 330 Keuros.
8. Components for telecommunication network data management. MENRT, 1996-1997, 50 Keuros.
9. Study of advanced database techniques. MRE, PRC BD3, 1991-1992, 15 Keuros.

THESES ADVISED

1. Vincenzo Gulisano (50%), U. Madrid, 2012.
2. Toufiq Sarni (40%), U. Nantes, 2011, now Research Engineer, Schneider Electric, Nice.
3. Fady Draidí (50%), U. Montpellier 2, 2012, now Ass. Prof., Naplouse U., Palestina.
4. Eduardo Ogasawara (50%), UFRJ, Rio de Janeiro, 2011, now Ass. Prof. Rio de Janeiro.
5. William Kokou Dedzoe. (40%), U. Nantes, 2011, now Project Manager, INRIA Rennes.
6. Mohamed Jawad (40%), U. Nantes, 2011, now ATER U. Nantes.
7. Wenceslao Palma (50%). U. Nantes, 2010, Ass. Prof, UCV, Valparaiso, Chili.
8. Philippe Lamarre (100%), HDR, U. Nantes, 2009, now Associate Prof., U. Nantes.
9. Eduardo Almadaia (50%), U. Nantes, 2009, now Ass. Prof, UFP, Curitiba, Brazil.
10. Rabab Hayek (50%), U. Nantes, 2009, Gecko software, France.
11. Anthony Ventresque (50%), U. Nantes, 2009, now postdoc at Univ. of Singapore.
12. Jorge Manjarrez (50%), U. Nantes, 2009, now Associate Prof., CIC IPN, Mexico.
13. Jorge Quiané-Ruiz (50%), U. Nantes, 2008, now Researcher U. Sarbrücken, Germany.
14. Reza Akbarinia (60%), U. Nantes, 2007, now Researcher, INRIA.
15. David Faye (50%), U. Nantes, 2007, now Associate Prof., U. Saint Louis, Sénégal.
16. Sandra Lemp (40%), U. Nantes, 2007, now at Acapnos, France.
17. Vidal Martins (10%), U. Nantes, 2007, now Associate Prof., PUCPR, Curitiba, Brazil.
18. Marcos Didonet de Fabro (50%), U. Nantes, 2007, now Ass. Prof, UFP, Curitiba, Brazil.
19. Cédric Coulon (10%), U. Nantes, 2006, Cap Gemini, France.
20. Cécile Lepape (40%), U. Paris 6, 2005, now Associate Prof. (MC) at U. Paris 6.
21. Alexandro Bento Lima (50%), UFRJ (Rio de Janeiro), 2004, now Associate Prof. at UFRJ, Brazil.
22. Joao Pereira (20%), UVSQ, 2002, now at Associate Prof. At U. Lisbon, Portugal.
23. Ioana Manolescu (40%), UVSQ, 2002, now DR INRIA, head of Oak team (INRIA-Saclay).
24. Helena Galhardas (20%), UVSQ, 2001, now Associate Prof. at U. Lisbon, Portugal.
25. Khaled Yagoub (50%), UVSQ, 2001, now at Oracle Corp. USA.
26. Fabio Porto (50%), PUC Rio, 2001, now Researcher, LNCC, Rio de Janeiro.
27. Olga Kapiskaia (50%), U. Paris 6, 1999, now consultant at Unilog, Paris.
28. Hubert Naacke (50%), UVSQ, 1999, now Associate Prof. at U. Paris 6.
29. Luc Bouganin (100%), UVSQ, 1996, now DR INRIA in the SMIS team (INRIA-Rocq).
30. Daniela Florescu (100%), U. Paris 6, 1996, formerly CR INRIA, chief XML architect at Oracle, USA.
31. Jean-Robert Gruser (40%), U. Paris 6, 1996, now consultant, Paris
32. Laurent Daynès (100%), U. Paris 6, 1995, now at Sun Labs, USA
33. Laurent Amsaleg (60%), U. Paris 6, 1995, now CR CNRS in Texmex team (IRISA).
34. Benoit Dageville (50%), UVSQ, 1995, now at Oracle Corp., USA
35. Patrick Casadessus (100%), U. Paris 6, 1994, now engineer, Paris
36. Mohamed Zait (100%), U. Paris 6, 1994, now at Oracle Corp., USA.
37. Eric Amiel (20%), U. Paris 6, 1994, now engineer, Lausanne.
38. Olivier Gruber (80%), U. Paris 6, 1992, now at IBM Yorktown Heights, USA.
39. Marie-Jo Bellosta (100%), U. Paris 6, 1992, now Associate Prof. at U. Paris 9.

40. Fabienne Viallet (80%), U. Paris 6, 1991, now Associate Prof. at U. Toulouse.
41. Mikal Ziane (80%), U. Paris 6, 1991, now Associate Prof. at U. Paris 5.
42. Björn Bergsten (80%), U. Paris 6, 1991, now at Sequent, Boston, USA
43. Rosana Lanzelotte (80%), PUC Rio, 1991, now Prof. at UNI Rio, Rio de Janeiro.
44. Philippe Pucheral (10%), U. Paris 6, 1989, now prof. at UVSQ and leader of the SMIS team (INRIA-Rocq).
45. Eric Simon (40%), U. Paris 6, 1986, now DR INRIA and technical manager at Business Objects, Paris.

PUBLICATIONS

Books

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2. T. Özsu, P. Valduriez. *Principles of Distributed Database Systems*. Prentice Hall, Englewood Cliffs, New Jersey, 1st edition, 562 pages, 1991; 2nd edition, 666 pages, 1999.
3. M. Bouzeghoub, G. Gardarin, P. Valduriez. *Object Technology: concepts and methods*. International Thomson Computer Press, 382 pages, 1997.
4. M. Bouzeghoub, G. Gardarin, P. Valduriez. *Les Objets*. Eyrolles, Paris, 1st edition, 344 pages, 1994; 2nd edition, 450 pages, 1997.
5. G. Gardarin, P. Valduriez. *Relational Databases and Knowledge Bases*. Addison-Wesley Publishing Company, Reading, Massachusetts, 448 pages, 1990.
6. P. Valduriez, G. Gardarin. *Analysis and Comparison of Relational Database Systems*. Addison-Wesley Publishing Company, Reading, Massachusetts, 280 pages, 1990.
7. T. Özsu, U. Dayal, P. Valduriez (eds.). *Distributed Object Management*. Morgan Kaufmann, 441 pages, 1993.
8. P. Valduriez (ed.). *Data Management and Parallel Processing*. Chapman and Hall, London, 350 pages, 1992.

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12. P. Valduriez, E. Pacitti. Parallel Database Systems. *Handbook of Database Technology*, J. Hammer and M. Scheider (eds.), CRC Press, 2007.
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14. T. Özsu, P. Valduriez. Distributed and Parallel Database Systems. *Handbook of Computer Science and Engineering*, 2nd Edition, A. Tucker (ed.), CRC Press, 2004.
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18. T. Özsu, P. Valduriez. Distributed Data Management. unsolved problems and new issues. *Readings in Distributed Computing*, T. Casavant and M. Singhal (eds.), IEEE Computer Society Press, 1993.
19. T. Özsu, U. Dayal, P. Valduriez. An Introduction to Distributed Object Management. *Distributed Object Management*, T. Özsu, U. Dayal and P. Valduriez (eds.), Morgan-Kaufmann, 1993.
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25. K. Park, P. Valduriez. A Hierarchical Grid Index (HGI), Spatial Queries in Wireless Data Broadcasting. *Distributed and Parallel Databases*, to appear.
26. R. Akbarinia, P. Valduriez, G. Verger. Efficient Evaluation of SUM Queries Over Probabilistic Data. *IEEE Transactions on Knowledge and Data Engineering*, to appear.
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51. S. Gançarski, H. Naacke, E. Pacitti, P. Valduriez. The Leganet System. Freshness-Aware Transaction Routing in a Database Cluster. *Information Systems*, (32)2:320-343, 2007.
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65. E. Pacitti, P. Valduriez. Replicated Databases: concepts, architectures and techniques. *Networking and Information Systems*, 1(3):519-546, 1998.
66. T. Özsu, P. Valduriez. Distributed and Parallel Database Systems - Technology and current state-of-the-art. *ACM Computing Surveys*, 28(1):125-128, 1996.
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75. P. Valduriez. Parallel Database Systems. open problems and new issues. *Distributed and Parallel Databases*, 1(2):137-165, 1993.
76. S. Danforth, P. Valduriez. A FAD for Data-Intensive Applications. *IEEE Trans. on Data and Knowledge Engineering*, 4(1):34-51, 1992.
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78. S. Danforth, P. Valduriez. The Data Model of FAD, a Database Programming Language. *Information Sciences*, (60)1&2 :51-75, 1992.
79. T. Özsu, P. Valduriez. Systèmes de Gestion de Bases de Données Répartis et Parallèles. *Canadian Information Processing/Informatique Canadienne*, 1992.
80. T. Özsu, P. Valduriez. Distributed Database Systems. Where Are We Now? *IEEE Computer*, (24)8:68-78, 1991.
81. H. Boral, P. Valduriez, et al.. Prototyping Bubba, a Highly Parallel Database System. *IEEE Trans. on Knowledge and Data Engineering*, (2)1:4-24, 1990.
82. B. Hart, P. Valduriez, S. Danforth. Parallelizing FAD using Compile Time Analysis Techniques. *IEEE Bulletin on Database Engineering*, (12)1:9-15, 1989.
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84. P. Valduriez. Complex Objects in Relational Database Systems. *Technology and Science of Informatics*, (6)5:597-608, 1987.
85. P. Valduriez. Join Indices. *ACM Trans. on Database Systems*, (12)2:218-246, 1987.
86. P. Valduriez. Optimization of Complex Queries Using Join Indices. *IEEE Bulletin on Database Engineering*, (9)4:10-16, 1986.
87. G. Gardarin, P. Valduriez, et al.. SABRINA, a Relational Database System Developed in a Research Environment. *Technology and Science of Informatics*, (5)6:453-474, 1986.
88. P. Valduriez, G. Gardarin. Join and Semi-join Algorithms for a Multiprocessor Database Machine. *ACM Trans. on Database Systems*, (9)1:133-161, 1984.

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89. R. Coletta, E. Castanier, P. Valduriez, C. Frisch, DuyHoa Ngo, Z. Bellahsene. Public Data Integration with WebSmatch. *First Workshop on Open Data*, 2012.
90. N. Ayat, H. Afsarmanesh, R. Akbarinia, P. Valduriez. Pay-As-You-Go Data Integration Using Functional Dependencies. *Int. Cross-Domain Conference and Workshop on Availability, Reliability, and Security (CD-ARES)*, 375-389, 2012.
91. M. Liroz-Gistau, R. Akbarinia, E. Pacitti, F. Porto, P. Valduriez. Dynamic Workload-Based Partitioning for Large-Scale Databases. *Int. Conf. on Databases and Expert Systems Applications (DEXA)*, 183-190, 2012.

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93. E. Ogasawara, J. Dias, D. Oliveira, F. Porto, P. Valduriez, M. Mattoso. An Algebraic Approach for Data-Centric Scientific Workflows. *Int. Conf. on VLDB (PVLDB)*, 2011.
94. Luis Barguano, Victor Mentes-Mulero, Patrick Valduriez, David Dominguez-Sal. ParallelGDB: A Parallel Graph Database based on Cache Specialization. *Int. Database Engineering & Applications Symposium (IDEAS)*, 2011.
95. W. K. Dedzoe, P. Lamarre, R. Akbarinia, P. Valduriez. Efficient Early Top-k Query Processing in Overloaded P2P Systems. *Int. Conf. on Databases and Expert Systems Applications (DEXA)*, 210-224, 2011.
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