

Dr Claude Duvallet

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Educational Background

October 2001	PhD in Computer Sciences	LITIS - Université du Havre
June 1997	MSc in Computer Sciences	Université de Rouen
June 1995	BSc in Computer Sciences	Université de Rouen

Positions Held (outside University)

September 2002 - May 2003: Research Engineer - ENST Bretagne - Brest

- Design of a system to transmit video by Internet
- RéActiVE Project lead by Ronan Keryell
- Implementation in Java, C/C++ and PHP.

October 1997 - December 2000: Software Engineer - EUVOXA (Computer Society Services) - Paris

- Design of an application for the payment of the services related to the insurance claims under Access 97 and improvement of this application over three years.
- Design of the integration of the taxation in an existing application of management of contracts of life insurance in Clipper-DBASE III.
- Update of the printing of impressions to format PCL in various applications designed in Clipper-DBASE III.
- Update of a software of seizure and search for cards in Microsoft Visual C++.
- Participation in the development of the specifications of a business application of Dashboards.

July 1996 - September 1996: Trainee - Analyst/Programmer - CNAV - Paris

- Design of a communication unit between Windows applications and a BULL server in C language with Microsoft Visual C++.
- Design of a referential one under Access 2.0.

October 1995: Analyst/Programmer - Laboratory LATSM at the University of Rouen

- Design of a plot software of Mossbauer bend under Windows 3.1 in Borland Pascal 7.

Teachings

Since September 2003 : Associate Professor in Computer Sciences - Université du Havre – Le Havre, France

- Scientific Programming in MuPAD.
- Network Systems
- Operating System (Linux)
- Distributed Object.
- Programming in C++/JAVA.
- Enterprise JavaBeans
- Server administration (Samba, WEB, Application server, Oracle Database, OpenLDAP).
- Quality of Service management in Real-Time Database System.

Since September 2005 : Teachings outside the Université du Havre – Le Havre, France

- CNAM du Havre - France (2005-2009) : Distributed systems and applications.
- CCI du Havre - France (2006-2009) : Distributed systems and applications.
- ESIGELEC de Rouen - France (2006-2009) : Enterprise Java Beans.
- ISIM de Sfax - Tunisia (November 2005): Real-Time Database and Multimedia Systems.
- Université de Gabès - Tunisia (November 2006 and 2007): Real-Time Database and Multimedia Systems.

Mars 1998 - Août 2002 : Assistant professor - Université du Havre – Le Havre, France

- Programming in SQL, C and Java language, UML.
- Network administration

In charge of international relationship (UFR des Sciences et Techniques du Havre)

Since September 2004, I am a member of the International Relationship Department and since January 2005, I am in charge of the international relationship in Science and Technology. I participate in the development of international relations in Sciences at University of Le Havre. I am also in charge of the management of the Erasmus student exchange program and of the development of bilateral agreement for the Sciences. I also participated in the writing of international projects (eg answer to a call from the World Bank for a pairing with the Faculty of Science at Nouakchott (Mauritania)).

System and Network Administrator in the Computer Sciences Laboratory

Between 1999 and 2002, I undertook the administration of computers and peripheral equipment in the Computer Sciences Laboratory of Le Havre. My task was to manage a pool PC (about 12) that worked with the operating system Linux (Redhat, Mandrake) and the Web server installed with Linux, Apache, MySQL, PHP.

Research activities

Research topics

Real-Time Databases Systems (since september 2003)

- Management of quality of service in real-time databases.
- Real-time nested transactions
- Distributed multimedia systems
- Intelligent Transport Systems

Multi agent systems (PhD studies)

- Anytime Multi Agents Systems, Distributed Multi Agents Systems with CORBA

Graduate supervision

PhD students :

- Since November 2007: Bechir ALAYA – Quality of service management and mobility in distributed multimedia application.
- Since November 2004: Nizar IDOUDI – Studies of new design methods for the real-time databases.
- November 2003-April 2009: Emna BOUAZIZI – Quality of service management in real-time databases.

Master students :

- March-June 2007: Bechir ALAYA – A feedback control architecture for the distributed multimedia systems.
- March-June 2006: Mounir KATET – Derived real-time data management in a real-time database system.
- March-June 2006: Besma ZEDDINI – Quality of service management in distributed multimedia system.
- Mars-Juin 2004: Nizar IDOUDI – Feedback control scheduling in Real-Time Databases Systems.

Engineer CNAM :

- September 2006-June 2007: Bertrand ROUTEL – Design and implementation of a real-time databases simulator.

Computer knowledge

Operating systems: MS-Dos, Windows (3.1, 95, 98, 2000, 2003, XP, Vista), Unix, Linux (Suse, Redhat, Mandriva, Debian, Ubuntu, Knoppix).

Programming Language: SQL, C/C++, Clipper, Visual Basic Application, Java.

Tags Languages: Latex, HTML.

Database : Oracle, MySQL, dBase, OpenLDAP.

Bureautique : Word, Excel, Powerpoint, Open Office.

Software : Apache, JBoss, Jonas, Mozilla, Thunderbird,

Others : Network administration, CORBA, Enterprise JavaBeans 3.0.

Languages

French : mother tongue.

English : good skills, both written and oral.

Publications

Journals

1. Bechir Alaya, **Claude Duvallet**, Bruno Sadeg. **A New Approach to Manage QoS in Distributed Multimedia Systems.** *International Journal of Computer Science and Information Security (IJCSIS)*, Pages 1-10. Volume 2. Number 1. June 2009
2. Nizar Idoudi, Nada Iouati, **Claude Duvallet**, Bruno Sadeg, Rafik Bouaziz, Faiez Gargouri. **A framework to model real-time databases.** *International Journal of Computing and Information Sciences (IJCIS)*, Volume 6, Number 1, Ontario, Canada, December 2008.
3. Besma Zeddini, **Claude Duvallet** and Bruno Sadeg. **Une approche qualité de service dans les systèmes multimédias distribués.** *Revue électronique des technologies de l'information - Special Issue of The 9th MCSEAI'06*, 11 pages, 2007.
4. Emna Bouazizi, Bruno Sadeg and **Claude Duvallet**. **Applicabilité du critère d'epsilon-sérialisabilité dans les SGBD temps réel.** *ISDM n°19 - Special Issue of The 8th MCSEAI'04*, 9 pages, 2005.
5. **Claude Duvallet**, and Bruno Sadeg. **Des systèmes multi-agents anytime pour la conception de systèmes d'aide à la décision.** *Technique et science informatiques*, 23 (8): 997-1025, 2004.
6. **Claude Duvallet**, Zoubir Mammeri, and Bruno Sadeg. **Les SGBD temps réel.** *Technique et science informatiques*, 18 (5): 479-516, mai 1999.

Internationals Conferences

1. Bechir Alaya, **Claude Duvallet**, Bruno Sadeg. **A New Method to Improve Network Exchanges of Multimedia Stream.** *Proceedings of 3rd International Conference on Complex Systems and Applications (ICCSA'2009)*, Le Havre, France, pages 206-211, June 29 - July 2, 2009.
2. Bechir Alaya, **Claude Duvallet**, Bruno Sadeg. **(m,k)-frame: A Method to Control the Quality of Service in Distributed Multimedia Systems.** *Proceedings of 18th International Conference on Software Engineering and Data Engineering (ISCA SEDE'2009)*, Las Vegas, United States, 6 pages (to appear), June 22 - 24, 2009.
3. Bechir Alaya, **Claude Duvallet**, Bruno Sadeg. **Overload control in distributed multimedia systems.** *Proceedings of 2nd International Conference on Web and Information Technologies (ICWIT'2009)*, Kerkenah Sfax, Tunisie. Pages 351-364. June 12-14, 2009.
4. Nizar Idoudi, **Claude Duvallet**, Bruno Sadeg, Rafik Bouaziz, Faiez Gargouri. **How to model a real-time database?** *Proceedings of 12th IEEE International Symposium on Object-oriented Real-time distributed Computing (IEEE ISORC'2009)*, Tokyo, Japan. Pages 321-325, 17-20 Mars 2009.
5. Bechir Alaya, **Claude Duvallet**, Bruno Sadeg. **From a Master Server Architecture to a Feedback Control Architecture.** *Proceedings of 22nd European Simulation and Modelling (ESM'2008)*, Le Havre, France, Pages 566-572, 27-29, October 2008.
6. Nizar Idoudi, **Claude Duvallet**, Bruno Sadeg, Rafik Bouaziz, Faiez Gargouri. **Structural model for realtime databases.** *Proceedings of 10th International Conference on Enterprise Information Systems*, Barcelona, Spain, pages 319-324, 12-16, June 2008.
7. Nizar Idoudi, **Claude Duvallet**, Bruno Sadeg, Rafik Bouaziz, Faiez Gargouri. **Structural model for realtime databases: an illustration.** *Proceedings of 11th IEEE International Symposium on Object-oriented Real-time distributed Computing (IEEE ISORC'2008)*, Orlando, United States, pages 58-65, May 5-7, 2008.
8. Emna Bouazizi, **Claude Duvallet** and Bruno Sadeg. **Improvement of QoD and QoS in RTDBS.** *Proceedings of 14th International Conference on Real-Time and Network System (RTNS'2006)*, Poitiers, France, May 30-31, pages 87-95, 2006.
9. Emna Bouazizi, **Claude Duvallet** and Bruno Sadeg. **Multi-Versions Data for improvement of QoS in RTDBS.** *Proceedings of 11th IEEE International Conference on Real-Time and Embedded Computing Systems and Applications (IEEE RTCSA'2005)*, Hong Kong, China, pages 293-296, August 17-19, 2005.
10. Emna Bouazizi, **Claude Duvallet** and Bruno Sadeg. **Using Feedback Control Scheduling and Data Versions to enhance Quality of Data in RTDBSs.** *Proceedings of International Computer System and Information Technology (IEEE ICSIT'2005)*, Alger, Algérie, pages 322-327, July 19-21, 2005.
11. Emna Bouazizi, **Claude Duvallet** and Bruno Sadeg. **Management of QoS and Data Freshness in RTDBSs using Feedback Control Scheduling and Data Version.** *Proceedings of 8th IEEE International Symposium on Object-oriented Real-time distributed Computing (IEEE ISORC'2005)*, Seattle, United States, pages 337-341, May 18-20, 2005.
12. Emna Bouazizi, Bruno Sadeg and **Claude Duvallet**. **Applicabilité du critère d'epsilon-sérialisabilité dans les SGBD temps réel.** *Proceedings of Eighth Maghrebian Conference on Software Engineering and Artificial Intelligence (MCSEAI'2004)*, Sousse, Tunisia, pages 617-628, May 2004.

13. **Claude Duvallet**, Bruno Sadeg and Alain Cardon. **Distributed Electronic Commerce Transactions thank to Anytime Agents.** *Proceedings of Sixth Multi-Conference on Systemics, Cybernetics and Informatics (SCI'2002)*, volume 8, pages 58-63, Orlando, United-States, July 2002.

French Conferences

1. Saoussen Rekhis-Boubaker, Rafik Bouaziz, **Claude Duvallet**, Bruno Sadeg. **Vers une ingénierie de système d'information temps réel par réutilisation.** *Actes de la Seconde Conférence Internationale sur les Systèmes d'Information et Intelligence Economique (SIE2009)*, Hammamet - Tunisie. pages 608-623. 12-14 Février 2009.
2. Nizar Idoudi, **Claude Duvallet**, Bruno Sadeg, Rafik Bouaziz, Faiez Gargouri. **Un modèle de données temps réel orienté-objet.** *Proceedings of 10th Conference on Software Engineering and Artificial Intelligence (MCSEAI2008)*, Oran, Algeria, pages 84-89, 28-30 April, 2008.
3. Bechir Alaya, **Claude Duvallet** and Bruno Sadeg. **Une architecture d'ordonnancement par rétroaction pour les systèmes multimédia distribués.** *Actes de conférence des huitièmes journées scientifiques des jeunes chercheurs en Génie Électrique et en Informatique (GEI'2008)*, Monastir, Tunisie, pages 389-398, 17-19 mars 2008.
4. **Claude Duvallet**. **Prise en compte des données dérivées dans les SGBD temps réel.** *Actes de conférence des cinquièmes journées scientifiques des jeunes chercheurs en Génie Electrique et en Informatique (GEI'2007)*, Monastir, Tunisie, pages 165-174, 26-28 mars 2007.
5. Mounir Katet, **Claude Duvallet**, Emna Bouazizi and Bruno Sadeg. **Prise en compte des données dérivées temps réel dans une architecture de contrôle par rétroaction.** *Actes de conférence de MCSEAI'2006*, Agadir, Maroc, décembre 7-9, pages 114-119, 2006.
6. Besma Zeddini, **Claude Duvallet** and Bruno Sadeg. **Une approche qualité de service dans les systèmes multimédias distribués.** *Actes de conférence de MCSEAI'2006*, Agadir, Maroc, décembre 7-9, pages 53-58, 2006.
7. Mounir Katet, **Claude Duvallet**, Emna Bouazizi and Bruno Sadeg. **Prise en compte des données dérivées temps réel dans une architecture de contrôle par rétroaction.** *Actes de conférence de MAJECSTIC'2006*, Lorient, France, novembre 22-24, 7 pages (cdrom), 2006.
8. Nizar Idoudi, **Claude Duvallet**, Faiez Gargouri, Bruno Sadeg, Rafik Bouaziz. **Un modèle objet pour les SGBD temps réel.** *Actes de conférence sur l'Informatique et ses Applications (IA'2006)*, Oujda, Maroc, pages 285-292, 31 Octobre-02 Novembre 2006.
9. Emna Bouazizi, **Claude Duvallet** and Bruno Sadeg. **Une nouvelle approche pour la gestion de la QoS dans les SGBD temps réel.** *Proceedings of INFORSID'2006*, Hammameth, Tunisie, Juin 01-03, pages 547-559, 2006.
10. Nizar Idoudi, **Claude Duvallet**, Bruno Sadeg and Faiez Gargouri. **Vers une méthode de conception des bases de données temps réel.** *Actes de conférence des sixièmes journées scientifiques des jeunes chercheurs en Génie Electrique et en Informatique (GEI'2006)*, Hammamet, Tunisie, pages 163-168, 24-26 mars 2006.
11. Emna Bouazizi, Bruno Sadeg and **Claude Duvallet**. **Ordonnancement contrôlé par rétroaction dans les SGBD temps réel.** *Actes de conférence de RTS'2005 (Real-Time and Embedded Systems)*, 12 pages, Paris, France, 5-6 avril 2005.
12. **Claude Duvallet**. **Vers la prise en considération des périodes d'instabilité dans les SGBD temps réel.** *Actes de conférence des cinquièmes journées scientifiques des jeunes chercheurs en Génie Electrique et en Informatique (GEI'2005)*, Sousse, Tunisie, pages 7-12, 25-27 mars 2005.
13. Emna Bouazizi, **Claude Duvallet** and Bruno Sadeg. **Utilisation de données multi-versions et de l'ordonnancement contrôlé par rétro-action pour les transactions temps réel.** *Actes de conférence de MajecStic'2004 (Manifestation des JEunes Chercheurs STIC)*, 13 au 15 octobre 2004 (sur cdrom).
14. Jérôme Haubert, Emna Bouazizi, **Claude Duvallet**. **Utilisation de contraintes (m,k)-firm dans les SGBDTR manipulant des transactions périodiques de mise-à-jour.** *Actes de conférence de MajecStic'2004 (Manifestation des JEunes Chercheurs STIC)*, 13 au 15 octobre 2004 (sur cdrom).
15. **Claude Duvallet**, Ronan Keryell, Sylvain Guérin, Yerom-David Bromberg and Gérard Babonneau. **Multi-diffusion et répartition de contenus vidéos dans un réseau actif : un modèle en couches.** *Proceedings of RenPar'2003*, pages 223-226, La Colle sur Loup, France, Octobre 2003.

PhD

1. **C. Duvallet**. **Des systèmes d'aide à la décision temps réel et distribués : modélisation par agents/ Distributed and Real-Time Decision Systems Support : Agents Based Modelling PhD**, October, the 5th 2001.