

Christian Delbé

Home Address: 173 Avenue Henry Dunant
06 000 Nice, FRANCE
Phone: +33 6 61 95 76 36
E-Mail: christian.delbe@gmail.com
Nationality: French
Born: 11 April 1979

OBJECTIVE

R&D oriented career in Software Engineering, Distributed and Grid Computing

SKILLS

Main topics Distributed computing, Grid computing, P2P computing, Object Oriented Programming, Distributed algorithms and concurrency control

Languages Java (Expert level, 5 years), C/C++, Scheme, Pascal, Basic, Visual Basic, Assembler x86, HTML, ASP, SQL

Technologies XML, Web Services, TCP/IP

EDUCATION

- 2003-2006** PhD in Computer Science, University of Nice-Sophia Antipolis.
Topic: "Fault tolerance for asynchronous active object"
Defended on January the 24th 2007
- 2004** EJCP 2004, the Summer School of Young Researcher in Computer Science
- 2003** Master in Computer Science, "Network and Distributed Systems", University of Nice-Sophia Antipolis (ranked 1st)
Topic: "Distributed Fault-tolerance"
- 2002** Fourth year in computer Science, University of Nice-Sophia Antipolis (ranked 2nd)
Topic: "Operator Overloading in Java"
- 2001** Third year in computer Science, University of Nice-Sophia Antipolis (ranked 3rd)
- 2000** Degree of Science, Mathematics & Computer Science, University of Nice-Sophia Antipolis
- 1999** Degree of Science, Physics & Electronics, University of Nice-Sophia Antipolis
- 1997** Baccalauréat S (scientific subjects, equivalent to High School diploma)

EXPERIENCES

Software Engineer

December 2006 to June 2007, in OASIS project, INRIA Sophia-Antipolis
ProActive Java library core developer and designer

PhD student

2003 to 2006, in OASIS project, INRIA Sophia-Antipolis
ProActive Java library core developer

Research Internship

2002 in OASIS project, INRIA Sophia-Antipolis
Topic: "Asynchronous and Automatic Continuation of Results"

Internship 1999 to 2001 in "Cabinet DWS" - 06125 Villeneuve-Loubet, FRANCE
System administrator

Participation to Grid Projects and Events

Since 2004, CoreGrid, the European research network on foundations, software infrastructures and applications for large scale distributed, GRID and Peer-to-Peer technologies. Team coordinator for work package 4

2004, 2005, 2006 1st, 2nd and 3rd Grid PlugTest: Interoperability on the Grid.
Event organization committee and speaker, tutor, practical experiments on a up to 2700 processors / 40 sites Grid

12-18 November 2005, SuperComputing 05: INRIA Sophia-Antipolis booth coordinator and exhibitor

Student volunteer chair IPDPS 2003

Reviewer HPDC 2003, RenPar 2003, DSN 2004, PDCN 2005, IWQoS 2006, HPDC 2006

PUBLICATIONS AND PATENTS

Conferences and Workshops

- [1] **Promised Messages: Recovering from Inconsistent Global States** - Françoise Baude, Denis Caromel, Christian Delbé and Ludovic Henrio - *Symposium on Principles and Practice of Parallel Programming (PPOPP 07), posters session, March 14-17, San Jose, California USA*
- [2] **Towards Deployments Contracts in Large Scale Clusters & Desktop Grids** - Françoise Baude, Denis Caromel, Alexandre di Costanzo, Christian Delbé, and Mario Leyton - *Invited paper in workshop on Large-Scale and Volatile Desktop Grids (PCGrid 2007), March 2007, Long Beach, California USA*
- [3] **Dynamically-Fulfilled Application Constraints through Technical Services - Towards Flexible Component Deployments** - Denis Caromel, Alexandre di Costanzo, Christian Delbé, and Matthieu Morel - *Proceedings of CompFrame 2006, Component and Framework Technology in High-Performance and Scientific Computing - June 2006, Paris, France*

- [4] **Peer to Peer and Fault-Tolerance: Towards Deployment Based Technical Services** - Denis Caromel, Christian Delbé and Alexandre di Costanzo - *Second CoreGRID Workshop on Grid and Peer to Peer Systems Architecture, January 16 - January 17, 2006, Paris, France*
- [5] **A Hybrid Message Logging-CIC Protocol for Constrained Checkpointability** - Françoise Baude, Denis Caromel, Christian Delbé and Ludovic Henrio - *EuroPar 2005, August 30 - September 2, Lisboa, Portugal*
- [6] **Causal Ordering of Asynchronous Request Services** - Christian Delbé - *Dependable Systems and Networks, Student Forum, June 28 - July 1, 2004, Palazzo dei Congressi, Florence, Italy*
- [7] **A Parallel Object-Oriented Application for 3D Electromagnetism** - Laurent Baduel, Françoise Baude, Denis Caromel, Christian Delbé, Saïd El Kasmi, Nicolas Gama and Stéphane Lanteri - *International Parallel Distributed Processing Symposium, April 26 - April 30, 2004, Santa Fe, New Mexico*

Journals

- [8] **Peer-to-Peer and Fault-tolerance: Towards Deployment-based Technical Services** - Denis Caromel, Alexandre di Costanzo, and Christian Delbé - *Future Generation Computer Systems (FGCS), to appear, 2007*
- [9] **ProActive: an Integrated platform for programming and running applications on grids and P2P systems** - Denis Caromel, Christian Delbé, Alexandre di Costanzo, and Mario Leyton - *Computational Methods in Science and Technology (CMST), volume 12, 2006.*
- [10] **Un protocole de tolérance aux pannes pour objets actifs non préemptifs** - Françoise Baude, Denis Caromel, Christian Delbé and Ludovic Henrio - *Technique et Science Informatiques - RTSI série TSI, Volume 24, no 10/2005*

Reports

- [11] **Tolérance aux pannes pour objets actifs asynchrones - protocole, modèle et expérimentations** - Christian Delbé - *PhD Thesis - January 2007*
- [12] **Promised Consistency for Rollback-Recovery** - Denis Caromel, Christian Delbé, and Ludovic Henrio - *INRIA Technical Report #5902 - May 2006*
- [13] **A Fault-Tolerance Protocol for ASP Calculus : Design and Proof** - Françoise Baude, Denis Caromel, Christian Delbé and Ludovic Henrio - *INRIA Technical Report #5246 - June 2004*

Patents

- [14] **Dispositifs et procédés asynchrones et automatiques de transmission de résultats entre objets communicants (Asynchronous and automatic continuations of results between communicating objects)** - Denis Caromel, Christian Delbé, Ludovic Henrio and Romain Quilici - *FR03 13876 - US Patent Pending*

TEACHING

First semester 2004, 2005, 2006

Distributed Programming (Post-graduate students)

First semester 2007

Master Degree internship supervision (6 months): "TimIt, a generic benchmarking tool for distributed applications"

Master Degree project supervision: "Scheduling native tasks with Java"

First semester 2006

Master Degree research internship supervision (4 months): "Optimizing NAS parallel benchmarks with ProActive"

Second semester 2005

Master Degree research internship supervision (3 months): "Implementing NAS parallel benchmarks with ProActive"

Second semester 2003

Bachelor Degree project supervision: "Introduction to Distributed Programming"

First semester 2003

Algorithmic & Programming (Under-graduate students)

Second semester 2002

Bachelor Degree project supervision: "P2P File Sharing techniques"

LANGUAGES

French Native Speaker

English Intermediate

German Basic knowledge

OTHER ACTIVITIES

Music Bass-guitar (12 years)

Sports Equitation (7 years), horse-ball (competition level), skiing, snow-surfing

Others Go game, reading (anticipation), movies