

# FABRICE HUET

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## Professional Experience

*Associate Professor, University of Nice Sophia-Antipolis, Nice, France. 2004 - present.*

I am now an associate professor at the university of Nice Sophia-Antipolis. I teach a wide range of topics, from Data Structures and Algorithms (1<sup>st</sup> year students) to Distributed And P2P Systems (5<sup>th</sup> year students). My current research interests lies in high-performance and high-level middlewares. I am also interested in P2P computing using unstructured networks.

*Post-Graduate Student, Vrije Universiteit, Amsterdam, The Netherlands. 2003 - 2004.*

I was awarded an INRIA Grant to visit Henri Bal's group at the Vrije Universiteit. My main work consisted in merging a high-level middleware (ProActive [1]) with a high-performance one (Ibis). This work lead to a publication at SuperComputing 2004 [9].

*PhD student, INRIA Sophia Antipolis, Oasis project, France. 1999 - 2002.*

- The first part of my PhD has consisted in designing and implementing mobile code mechanisms [5,7] in ProActive, a Java library for concurrent and distributed computing. This work also involved meta object programming [4].
- The main issue we were interested in was to enable communications with programs even after they had migrated to another machine. We have devised two schemes and in order to evaluate their respective performance we have studied them using Markovian models. The validation of the models was done conducting extensive simulations and experiments on a LAN and a MAN [3,8].

*Teaching assistant at Nice - Sophia Antipolis University, France. 1999 - 2002.*

*DEA internship, INRIA Sophia Antipolis, OASIS project, France. 1999.*

During the 6-month DEA internship, entitled "*Mobile Agents and Active Objects*", I first studied the relations between the active object and the mobile code paradigms. This work then led to an implementation of mobile code primitives in the ProActive library [1,6].

## Education

Oct. 1999 - Sept. 2002    Ph.D. student at INRIA Sophia Antipolis and Nice - Sophia Antipolis University, France.

Advisors: Pr. Denis Caromel, Françoise Baude.

Topics: Implementation and Performance Evaluation of Weak Mobility in a Java Middleware

Oct. 1998 - June 1999

DEA (French equivalent of M.Sc.) studies in computer networking and distributed systems, at the ESSI engineering school, Nice - Sophia Antipolis University, France.

Oct. 1996 - June 1997

Visiting student at the computer science department, University of Sussex at Brighton (UK).

## Selected List of Publications

1. The ProActive Library. <http://www-sop.inria.fr/oasis/ProActive>.
2. F. Baude, D. Caromel, F. Huet, L. Mestre and J. Vayssiere *Interactive and Descriptor-based Deployment of Object-Oriented Grid Applications*, HPDC-11, Edinburgh - Scotland, July 2002.

3. S. Alouf, F. Huet and P. Nain, *Forwarders vs. Centralized Server: An Evaluation of Two Approaches for Locating Mobile Agents*, extended abstract at ACM Sigmetrics 2002, Marina Del Rey - California, June 2002.
4. D. Caromel, F. Huet and J. Vayssiere, *A simple security-aware MOP for Java* short paper at Reflection 2001, Kyoto - Japan, September 2001.
5. F. Baude, D. Caromel, F. Huet and J. Vayssiere, *Communicating Mobile Active Objects in Java*, HPCN Europe 2000, Amsterdam - The Netherlands, May 2000.
6. F. Huet, *Mobile Agents and Active Objects*, DEA internship report, (advisors F. Baude and D. Caromel), 1999.
7. F. Baude, D. Caromel, F. Huet and J. Vayssiere, *Objets Actifs Mobils et Communicants* TSI (Volume 21, number 6).
8. S. Alouf, F. Huet and P. Nain, *Forwarders vs. Centralized Server: An Evaluation of Two Approaches for Locating Mobile Agents*, Performance 2002.
9. F. Huet, D. Caromel and H. Bal, *A High Performance Middleware in Java with a Real Application*, SuperComputing 2004.
10. D. Caromel , F. Huet , S. Lanteri and N. Parlavantzas, *Distributed and Object Oriented Computational Electromagnetics on the Grid*, Chapter in *New Trends in Computational Electromagnetics*, L. Tarricone and A. Esposit editors, 2006

## Language Skills

*French* Native language  
*English* fluent

## Miscellaneous

*Age* 30 years  
*Nationality* French  
*Sex* Male  
*Marital status* Married  
*Other* Student volunteer in ECOOP 2000, Cannes, France.  
 Referee for ACM Sigmetrics 2000, HPCN (2000, 2001), Euro-Par 2000 and a special issue of "Journal of Parallel Distributed Computing" on Java on clusters.

## REFERENCES

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*Denis Caromel* Professor, University of Nice Sophia Antipolis, France.  
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