

Alexandre Dupas

38 rue de Gravelines
86100 Chtellerault,
FRANCE

Cell phone: +33 (0)610281693
Email: dupas@sic.univ-poitiers.fr
Homepage: <http://adupas.org/>

Personal Information

Date of Birth: December 13, 1983

Citizenship: France

Education

Ph.D. in Computer Science, University of Poitiers, *expected* November 2009.

THESIS: Operations and Algorithms for Topological Segmentation of 3D Images

Advisers: Prof. Pascal Lienhardt & Dr. Guillaume Damiand

Master in Computer Science, University of Poitiers, 2006.

THESIS: Segmentation in Topological Maps

Adviser: Dr. Guillaume Damiand

Bachelor in Computer Science, University of Poitiers, 2004.

Fields of Interest

Medical imaging, Topological modeling, Discrete geometry, Image processing

Skills

Theoretical Skills

Image Processing, Segmentation, Topological model, Combinatorial map, Algebraic Topology

Computer Skills

Operating systems: Unix/Linux, Windows.

Programming: C/C++, Java, Perl, Python, HTML, PHP, SQL, Prolog, OCaml, Matlab, LaTeX.

Tools and Libraries: Qt, GTK+, OpenGL.

Languages

French: native

English: proficient (TOEIC 860/990)

German: working knowledge

Publications and Presentations

Journal Papers

A. Dupas, G. Damiand. **Region Merging with Topological Control.** In Discrete Applied Mathematics, Volume 157, Issue 16, August 2009, pages 3435-3446.

Conference Papers

A. Dupas, G. Damiand., J.-O. Lachaud **Multi-Label Simple Points Definition for 3D Images Digital Deformable Model.** In proceedings of 15th IAPR International Conference on Discrete Geometry for Computer Imagery (DGCI'09), Montral, Qubec, Canada. LNCS Volume 5810, pages 156-167. September 2009.

A. Dupas, G. Damiand. **First Results for 3D Image Segmentation with Topological Map.** In proceedings of 14th IAPR International Conference on Discrete Geometry for Computer Imagery (DGCI'08), Lyon, France. LNCS Volume 4992, pages 507-518. April 2008.

A. Dupas, G. Damiand. **Comparison of Local and Global Region Merging in the Topological Map.** In proceedings of 12th International Workshop on Combinatorial Image Analysis (IWCIA'08), Buffalo, NY, USA. LNCS Volume 4958, pages 420-431. April 2008.

Talks

A. Dupas, G. Damiand. **Topologically Constrained Segmentation with Topological Maps.** International Workshop on Computational Topology in Image Context, Poitiers, France. June 2008.

Awards

Best Student Paper at the 15th IAPR International Conference on Discrete Geometry for Computer Imagery.

Teaching Experience

University of Poitiers, XLIM-SIC Laboratory

Supervision related to research, 2008

3 M. Sc. students (1st year) co-supervised with Guillaume Damiand
Subject: Improve visualization of 3D images in the research software

Supervision related to research, 2007

2 M. Sc. students (1st year) co-supervised with Guillaume Damiand
Subject: Build of a software GUI using Qt4

University of Poitiers, Department of Computer Science

Undergraduate classes, 2008-2009.

Algorithms & Ada Programming (42h) B. SC. 1st year

Operating System (Linux) (26h) B. SC. 1st year

Databases (12h) B. SC. 3rd year

Undergraduate classes, 2007-2008.

Algorithms & Ada Programming (42h) B. SC. 1st year

Operating System (Linux) (20h) B. SC. 1st year

Databases (12h) B. SC. 3rd year

Computer Architecture (8h) B. SC. 1st year

Undergraduate classes, 2006-2007.

Algorithms & Ada Programming (48h) B. SC. 1st & 2nd year

Office Suite (OpenOffice.org) (18h) B. SC. 1st year

Ada Programming (18h) B. SC. 2nd year

Related Professional Experience

Computer science training, 2005 (2 months)

TITLE: Web Developer

Description: website for live video streaming of sports events.

Firm: CRITT Sport-Loisirs, Châtellerault France

References

Guillaume Damiand
Researcher
University of Lyon, Liris, CNRS
+33 (0)472432662
guillaume.damiand@liris.cnrs.fr

Olivier Alata
Associate Professor of Electrical Engineering and Computer Science
University of Poitiers, XLim-SIC, CNRS
+33 (0)549496624
alata@sic.univ-poitiers.fr

Jacques-Olivier Lachaud
Professor of Computer Science
University of Savoie, LAMA, CNRS
+33 (0)479758642
jacques-olivier.lachaud@univ-savoie.fr

Last updated: October 16, 2009

<http://adupas.org/cv-en.pdf>