

Fabrice Michel

Single, 28 years old

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Nationality : French

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Objective : Research/Software Engineer

Education

- 2008-2012** ECOLE CENTRALE PARIS (ECP) - INRIA SACLAY.
PHD CANDIDATE IN COMPUTER VISION. SUPERVISOR : NIKOS PARAGIOS.
Sponsored by Medicen Paris Region
Metric Learning for 3D Multimodal Medical Image Registration
- 2007-2008** ECOLE NORMALE SUPÉRIEURE (ENS) DE CACHAN.
MASTER'S DEGREE MATHÉMATIQUE VISION APPRENTISSAGE.
Statistics, Probabilities, Computer Vision
Graduated with distinctions ('Très Bien')
- 2004-2008** ECOLE NATIONALE DES PONTS ET CHAUSSÉES (ENPC).
One of France's leading engineering schools
Major : Mathematics and Computer Science
Specialization : Computer vision, image processing

Work Experience

- October 2008** ECOLE CENTRALE PARIS/INRIA SACLAY.
RESEARCH SCIENTIST (C++/MATLAB).
Metric Learning for deformable registration of medical images
Reviews for IEEE CVPR and MICCAI
Teaching Assistant at Ecole Centrale Paris
Key Achievement : Authored and co-authored 4 papers in the most distinguished conferences in the field, 1 Computer Vision (CVPR10), 3 Medical Imaging (ISBI10, MICCAI10, ISBI11), 2 submissions pending
- May 2010 - July 2010** TECHNICAL UNIVERSITY OF MUNICH (TUM).
INVITED RESEARCH SCIENTIST (C++/MATLAB).
Supervisor : Nassir Navab
- August 2006 - August 2007** - SIEMENS CORPORATE RESEARCH, PRINCETON N.J., USA.
RESEARCH/SOFTWARE ENGINEER INTERN WITH ALI KHAMENE (C++/MATLAB).
Research and Development in the context of high-end medical imaging industry
Development on large code bases
Software testing and debugging.
Key Achievement : Research work lead to a patent application
- April-July 2005** (3 Months) INRA MONTPELLIER/ INRIA.
RESEARCH INTERN IN MERE PROJECT (SCILAB/TCL).
Bacteria growth simulation software development
Graphical User Interface and algorithmic module development
Key Achievement : Software used as a teaching aid for students of Sup Agro Montpellier

Languages

French	Native
English	Fluent/Bilingual written and spoken
Spanish, German	Beginner

Computer Skills

Programming	C/C++ Object oriented programming (VS'2010 or KDEvelop), Multithreading (beginner), OpenGL (beginner)
Scripting Language	Matlab, Scilab, TCL/Tk (beginner), Maple (beginner)
Office software	Microsoft Office, LibreOffice, L ^A T _E X
OS	Microsoft Windows, MacOS X Lion, Linux Fedora

Publications

BOOSTED LEARNING FOR 3D MULTI-MODAL DEFORMABLE REGISTRATION.

IEEE International Symposium on Biomedical Imaging (ISBI'11)

F. Michel, M. Bronstein, A. Bronstein & N. Paragios

3D KNOWLEDGE-BASED SEGMENTATION USING POSE-INVARIANT HIGHER-ORDER GRAPHS.

International Conference, Medical Image Computing and Computer Assisted Intervention (MICCAI'10)

C. Wang, O. Teboul, F. Michel, S. Essafi & N. Paragios

DATA FUSION THROUGH CROSS-MODALITY METRIC LEARNING USING SIMILARITY-SENSITIVE HASHING.

IEEE International Conference on Computer Vision and Pattern Recognition (CVPR'10)

M. Bronstein, A. Bronstein, F. Michel & N. Paragios

IMAGE TRANSPORT REGRESSION USING MIXTURE OF EXPERTS AND DISCRETE MARKOV RANDOM FIELDS.

IEEE International Symposium on Biomedical Imaging (ISBI'10)

F. Michel & N. Paragios

Patents

SYSTEM AND METHOD FOR GEODESIC IMAGE MATCHING USING EDGE POINTS INTERPOLATION.

Ali Khamene, Fabrice Michel

Application # US 2009/0067755 A1

Awards

2005

DESIGN AWARD - 'PRIX SPÉCIAL DU JURY'.

Design Week 2005 Ponts et Chaussées

Teaching

2011

ECOLE CENTRALE PARIS.

MALTA.

Teacher to last year students

2010 and 2009

ECOLE CENTRALE PARIS.

COMPUTER VISION (2010) AND SIGNAL PROCESSING (2009 AND 2010).

Teaching Assistant to 2nd year students

Lecturer : Iasonas Kokkinos (2010) and Nikos Paragios (2009)

Extracurricular Activities

President of the Association organizing the 'Prom' night' (Gala des ponts et chaussées 2005)

I'm also into fine cuisine, both having and making, Photography and Travelling.

References

Nikos Paragios

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Michael Bronstein

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Ali Kamen

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