



PHD IN COMPUTER SCIENCE

EXPERTISES

Innovation	Technology watch. Publications in international conferences.
Management	To recruit, evaluate and motivate staff. Agile software development.
Develop.	Prototypes (C#, C++, R). Optimizations of industrial workflows.
Formation	Teaching computer science at University. Internal training.

EXPERIENCES

2012 –	In head of R&D at Gestform a digitizing company with 350 employees.
2009 – 2012	PhD. Image processing, data mining, machine learning. Scientific research at LaBRI (computer science laboratory) and software development at Gestform.
1 month	Young researcher grant. Osaka Prefecture University. Real time image retrieval.
6 months	Internship at INRIA . Multitouch user interface for 3D interaction.
4 months	Internship at Kumamoto computer science laboratory, Japan . Random number generation based on Chaos theory.

EDUCATION

2009-2012	PhD in computer science. Image classification and retrieval.
2006-2009	ENSEIRB selective french grande école . Image, sound, video processing.
2009	Master degree in computer science. Bordeaux 1 University.
2003-2006	CPGE (three intensive years of mathematics, physics, electronics, mechanics). Lycée Turgot, Limoges.
2003	Scientific Baccalaureate. Lycée Pré de Cordy, Sarlat.

LANGUAGES

English	Good working knowledge.	TOEFL score : 560/650.
Japanese	Intermediate level.	Working towards JLPT N5.
Spanish	Basic notions.	
French	Mother tongue.	

INTERESTS

Music	Piano and guitar, practicing for 7 years.
Development	Video games in C# / XNA, HTML5 / javascript.
Culture	Voluntary work ay Mandora association. Japanese courses.
Sport	Tennis, basket-ball , volley-ball.



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EXAMPLES OF INDUSTRIAL APPLICATIONS

Handwriting digits recognition based on neural networks.
Bags of visual words and SVM application on document image classification.
Document image segmentation based on decision trees.
Detection of check-box location and state in document images.
Identity card robust retrieval using RANSAC, FLANN and SURF.
Incremental learning with user interaction for continual improvement process.

INTERNATIONAL AND NATIONAL PUBLICATIONS

- GRETSI11** [Classification d'Images de Documents avec Retour de Pertinence : Application aux Documents de Type Ressources Humaines.](#) Bordeaux.
- ICDAR11** [Document Images Indexing with Relevance Feedback: an Application to Industrial Context.](#) Beijing.
- CIFED12** [Reconnaissance et Extraction de Pièces d'identité.](#) **Best Paper Award** Bordeaux.
- DRR13** [Semi-structured document image matching and recognition.](#)
Best student Paper Award San Francisco.
- DN13** Reconnaissance et extraction de documents. [Revue Document Numérique.](#)
- DAS14** Improving classification of an industrial document image database by combining visual and textual features. Tours.

TEACHING EXPERIENCE

2010 - 2011

Institute of Technology of computer science of Bordeaux :

- image processing (imageJ, OpenGL) - 24h.
- web (HTML, CSS, Joomla) - 10h.
- multimedia project (web) - 8h.

Bordeaux University : C2I (openoffice, microsoft office) - 16h.

2011-2012

University Institutes for Technology of computer science of Bordeaux :

- event-driven programming (C#) - 24h.
- web - 10h.
- multimedia project (microsoft surface) - 8h.
- object-oriented programming (UML, C++, Java, C#) - 22h