


# Curriculum Vitae

## PhD in image processing

<p>Étienne BAUDRIER born on the 14 February 1976 in France</p>	
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## PROFESSIONAL PROJECT

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Research between mathematics and image processing.

Skills: image processing, CBIR, pattern recognition, classification, multi-resolution analysis.

## EDUCATION

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- 2002-2005 PhD of the University of Reims Champagne-Ardenne  
finished on 9 dec 05  
Title : Binary image comparison based on a local measure of dissimilarity.  
Application to classification  
jury composition:  
Jacques Labiche (reviewer)  
Gilles Millon (co-supervisor)  
Frédéric Nicolier (co-supervisor)  
Sylvie Philipp-Foliguet (reviewer)  
Alain Riffaud (invited)  
Su Ruan (supervisor)
- 2001-2002 Master in applied mathematics, mention B.  
University of Grenoble.

## RESEARCH ACTIVITY

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### Post-doctoral position (ATER)

sept 2005 – aug 2006

Place: laboratory LMA, University of La Rochelle

Key-words: image geometric modelisation, Clifford algebra

### PhD

nov 2003 – dec 2005

Place: laboratory CReSTIC, image team, University of Reims Champagne-Ardenne

Key-words: Hausdorff Distance, non-linear multi-resolution analysis, image comparison, binary images, local comparison, dissimilarity measure, classification, SVM, medieval impressions.

### Master research

feb 2003 – jun 2003

Place: Laboratory TIMC, University of Grenoble

Key-words: Radon transformation, medical image processing, tomography, 3D reconstruction.

## PUBLICATIONS

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### *INTERNATIONAL JOURNAL*

E. Baudrier, G. Millon, F. Nicolier, R. Seurin, S. Ruan -- **Hausdorff distance based multiresolution maps applied to an image similarity measure** -- *Imaging Science Journal*.

### *INTERNATIONAL CONFERENCE PROCEEDINGS WITH REVIEWING*

E. Baudrier, G. Millon, F. Nicolier, S. Ruan -- **Une méthode de comparaison d'images binaires quantifiant les dissimilarités locales Application à la classification d'impressions anciennes** -- *Colloque Internationale Francophone sur l'écrit et le Document 2006 (CIFED06)*, 18-21 sept 2006, Fribourg, Switzerland.

E. Baudrier, G. Millon, F. Nicolier, S. Ruan -- **A fast binary-image comparison method with local-dissimilarity quantification** -- *International Conference on Pattern Recognition 2006 (ICPR'06)*, 20- 24 Aug 2006, Hong Kong.

E. Baudrier, G. Millon, F. Nicolier, S. Ruan -- **A new similarity measure using Hausdorff distance map** -- *IEEE International conference on image processing (ICIP'04)*, 24-27 Oct 04, Singapour . pp. 669-672.

E. Baudrier, G. Millon, F. Nicolier, R. Seulin, S. Ruan -- **Hausdorff distance based multiresolution maps applied to an image similarity measure** -- *The Topical Meeting on Optical Sensing and Artificial Vision (OSAV'2004) (SPIE)*, 18-21 Oct 04, St Petersburg, Russia

F.Nicolier, G. Millon, E. Baudrier -- **A Wavelet Filter Criterion for An A-Priori Evaluation of Wavelet Coding and Denoising Performances** -- *IEEE Int. Symp. on Signal Proc. and its Applications*, Paris (FRANCE), jul 2003, pp. 475-478.

### ***NATIONAL CONFERENCE PROCEEDINGS WITH REVIEWING***

E. Baudrier, G. Millon, F. Nicolier, R. Seulin -- **Impression virtuelle de tampons en bois gravé anciens** -- *Séminaire « maquette virtuelle et patrimoine »*, 13-14 mar 03, Cluny, pp. 25-28.

F. Nicolier, G. Millon, E. Baudrier -- **Le projet ANITA : ANalyse d'Image et de Tampons Anciens** -- *Séminaire « maquette virtuelle et patrimoine »*, 13-14 mar 03, Cluny, pp. 51-54.