

ABDELÂALI HASSAÏNE

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Born in February 24th, 1983
Algerian citizenship
Single

PROFESSIONAL EXPERIENCE

From Feb. 2011 **POST-DOCTORAL FELLOW – COLLEGE OF ENGINEERING , QATAR UNIVERSITY**

Under the supervision of [Dr. Somaya Ma'adeed](#)

- Development of a system for document management and writer identification.

Jan. - Jul. 2010 **POST-DOCTORAL FELLOW – LABORATOIRE HUBERT CURIENT – UNIVERSITÉ DE SAINT-ETIENNE**

Under the supervision of [Prof. Alain Trémeau](#)

- Development of an authentication system for paintings and artworks based on multispectral image analysis.

Sep. 2006 – Dec. 2009 **RESEARCH ENGINEER – CENTER OF MATHEMATICAL MORPHOLOGY – PARIS SCHOOL OF MINES**

Under the supervision of [Dr. Etienne Decencière](#) and [Dr. Bernard Besserer](#).

- Development of a several tools for document image analysis, including text lines and words segmentation and offline-signature verification.
- Realization of a two feasibility studies for Estimages and Hutchinson on shape segmentation and characterization.
- Development of a complete restoration system for optical soundtracks using digital image-processing within the [Resonances Project](#).
- Active participation in the development of Morph-M (the collaborative image-processing library of the Center of Mathematical Morphology): realization of Shapes Analysis, Multispectral, Region Growing and Resonances modules.

Feb. - Jun. 2006 **RESEARCH INTERNSHIP – LIRIS - INSA DE LYON**

Under the supervision of [Dr. Véronique Eglin](#) and [Dr. Stéphane Bres](#).

- Development of a novel compression method for document images,
- Extraction of similar shapes within the text part of the image.
- Original contribution to the compression of each layer of document images.

Feb. - Jul. 2005 **GRADUATION INTERNSHIP – UNIVERSITY OF TLEMCEN**

Under the supervision of [Dr. Abdelhak Moussaoui](#).

- Development of a software tool for vanishing points detection.

EDUCATION

- 2006-2009 PhD Thesis: "Restoration of film soundtracks using digital image processing". Defended in December 2009 at the Center of Mathematical Morphology - Paris School of Mines.
- 2005-2006 Research Master in "Computer graphics and image processing" at INSA de Lyon - France.
- 2000-2005 Engineering studies in Computer science at the University of Tlemcen - Algeria.

AWARDS AND HONORS

- Winning writer identification system in the ICDAR / GREC 2011 the Music Scores Writer Identification Competition (to be announced in ICDAR 2011 conference).
- Winning handwriting segmentation system in the 2010 Handwriting Segmentation Contest (announced in the ICFHR 2010 conference).
- Winning offline-signature verification system in the 2009 International Signature Verification Competition SigComp09 (announced in the ICDAR 2009 conference).
- Top-ranked student in the Faculty of Engineering Sciences at the University of Tlemcen in 2005.
- Top-ranked student in the first year common-core syllabus at the University of Tlemcen in 2000.

COMPUTER SKILLS

- C/C++, Python, Matlab, C#, OpenCv, Pascal, Basic, HTML, PHP, LaTeX,
- Microsoft Visual C++, Microsoft Visual Basic, Borland C++ Builder, Borland Delphi integrated development environments.

LANGUAGE SKILLS

- Arabic: mother tongue,
- English: bilingual,
- French: bilingual.

PUBLICATIONS

- A. Hassaïne, S. Al-Ma'adeed, J. Alja'am, A. Jaoua and A. Bouridane. *The ICDAR2011 Arabic Writer Identification Contest*, in 11th International Conference on Document Analysis and Recognition, Beijing, China. September 2011.
- A. Hassaïne, E. Decencière and B. Besserer, N. Ricordel and C. Comte, *Restoration of optical soundtracks in motion picture films by digital image processing*, Joint Technical Symposium, Oslo, Norway, May 2010.
- A. Hassaïne, E. Decencière and B. Besserer, *Efficient restoration of variable area soundtracks*, Image Analysis & Stereology, June 2009.
- A. Hassaïne, E. Decencière and B. Besserer, *Restoration of variable density film soundtracks*, EUSIPCO, Glasgow, UK, August 2009.
- J. Taquet, B. Besserer, A. Hassaïne and E. Decencière, *Detection and correction of under/overexposed optical soundtracks by coupling image and audio signal processing*, EURASIP Journal on Advances in Signal Processing, Vol. 2008.
- B. Besserer, A. Hassaïne and E. Decencière, *Optical soundtrack restoration: the image processing approach*, Archiving, Bern, Switzerland, 2008.
- E. Brun, A. Hassaïne, B. Besserer and E. Decencière, *Restoration of variable area soundtracks*, in ICIP 2007, San Antonio, USA, September 2007.
- A. Hassaïne, V. Eglin and S. Bres, *Une méthode de compression sans perte pour les images de documents basée sur la séparation en couches*, CORESA, Montpellier, France, November 2007.

EXTRA-CURRICULAR ACTIVITIES

- Football, hiking, chess, cooking.