Mai Quyen PHAM | PhD in signal processing

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Education

GIPSA Lab, Grenoble	**France**
Post-doc, in ARMADA Project	*March, 2015–now*
Paris-Est University	**France**
PhD student, in Signal processing	*2012–January, 2015*
Aix-Marseille 1 University	**France**
Master degree, in Software Engineering and Statistics	*2009–2011*
Hanoi National University of Education	**Viet Nam**
Bachelor, in Mathematics	*2003–2007*

Thesis

title: *Sparse representations for seismic wave fields restoration and quantitative analysis*

supervisors:

○ Prof. Jean-Christophe Pesquet

○ Dr. Laurent Duval

○ Dr. Caroline Chaux

Experience

UPEMLV	**France**
Teaching assistant, in algebra and signal processing	*2012–2014*
CEA Cadarache	**France**
Internship at, DSM/IRFM	*April–September, 2011*
Analysis and processing of signals from a reflectometer for measuring the profile of a plasma electron density of fusion	
Aix-Marseille 1 University	**France**
Internship at, LI2M	*January–March, 2011*
A comparison of denoising methods for images	

Languages

English: reading, writing and speaking

French: reading, writing and speaking

Vietnamese: mother language

Computer skills

Linux, Windows environments: Matlab, Visual Basic C++, CodeBlocks
Programming languages: Java, LaTeX, MySQL, HTML, SVN

Publications

Journal papers:

1) M.-Q. Pham, L. Duval, C. Chaux and J.-C. Pesquet, "A Primal-Dual Proximal Algorithm for Sparse Template-Based Adaptive Filtering: Application to Seismic Multiple Removal", IEEE Transactions on Signal Processing, Vol. 62, No. 16, August 15, 2014, pp. 4256–4269.

2) A. Repetti, M.-Q. Pham, L. Duval, E. Chouzenoux and J.-C. Pesquet, "Euclid in a Taxicab: Sparse Blind Deconvolution with Smoothed l1/l2 Regularization", IEEE Signal Processing Letters, vol. 22, No. 5, May 2015, pp. 539–543.

3) M.-Q. Pham, B. Oudompheng, B. Nicolas and J.- I. Mars, "A Noise Robust Method with Smoothed ℓ_1/ℓ_2 Regularization for Sparse Moving-Source Mapping" Submitted, 2016.

Patent:

4) Caroline Chaux, Laurent Duval, Jean-Christophe Pesquet, Mai Quyen Pham, "Procédé de traitement de réflexions multiples", France, 12/02.299. Aug. 2012

Invited paper:

5) M.-Q. Pham, C. Chaux, L. Duval and J.-C. Pesquet, "A constrained-based optimization approach for seismic data recovery", Special session on "SS5 - Seismic Signal Processing", IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP, May 4–9, 2014), Florence, Italy

Conference papers:

6) M.-Q. Pham, C. Chaux, L. Duval and J.-C. Pesquet, "Seismic multiple removal with a primal-dual proximal algorithm", IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP, May 26–31, 2013), Vancouver, Canada

7) M.-Q. Pham, C. Chaux, L. Duval et J.-C. Pesquet, "Filtrage de multiples sismiques par ondelettes et optimisation convexe", (GRETSI, September 3–6, 2013), Brest, France

8) M.-Q. Pham, C. Chaux, L. Duval and J.-C. Pesquet, "Dual-tree wavelet based adaptive filtering for 2D seismic data", International Conference on Mathematics in Signal Processing (IMA, December 15–17, 2014), Birmingham, UK

9) M.-Q. Pham, C. Chaux, L. Duval and J.-C. Pesquet, "Sparse adaptive template matching and filtering for 2D seismic images with Dual-tree wavelets and proximal methods", IEEE International Conference on Image Processing (ICIP, September 27–30, 2015), Québec, Canada

10) M.-Q. Pham, B. Oudompheng, B. Nicolas and J.- I. Mars, "Sparse deconvolution for moving-source localization", IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP, March 20–25, 2016), Shanghai, China

11) L. Lamotte, B. Nicolas, M.-Q. Pham and B. Oudompheng, "A theoretical and experimental comparison of the deconvolution methods for moving sources", Berlin Beamforming Conference (Bebec, February 29–March 1, 2016), Berlin, Germany

12) L. Lamotte, B. Nicolas, B. Oudompheng, M.-Q. Pham and D. Fattaccioli "ARMADA: localisation et contribution des sources au bruit de passage d'un navire", CFA/VISHNO, 2016

13) M.-Q. Pham, N. Ducros and B. Nicolas, "BVMF-B algorithm for nonconvex nonlinear regularized decomposition of spectral x-ray projection images", SPIE Medical Imaging 2017, February 11-16, 2017, Orlando, Florida United States.