

Emilie Chouzenoux

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Assistant Professor at UPEM

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77454 Marne-la-Vallée Cedex 2

Biography

- Since sep. 2011 **Assistant Professor** at University Paris-East Marne-La-Vallée.
Laboratoire d'Informatique Gaspard Monge, UMR CNRS 8049
Team « Signal et Communications ».
- 2010 – 2011 **ATER** at University Paris-East Marne-La-Vallée.
- 2007 – 2010 **PhD** at École Centrale Nantes (defended the 8th dec. 2010).
Institut de Recherche en Communications et Cybernétique de Nantes, UMR CNRS 6597.
Team « Analyse et Décision en Traitement du Signal et de l'Image ».
- Title :* Majorize-Minimize algorithms for stepsize determination.
Application to the resolution of inverse problems .
- Advisors :* Jérôme Idier (Director) and Saïd Moussaoui (Co-advisor).
- 2007 – 2010 **Teacher assistant** at École Centrale Nantes.
Teaching departement : Computer Science and Mathematics.
- 2006 – 2007 **Master studies** at École Centrale Nantes.
Major : « Signal Processing » (graduated in oct. 2007, with high honours).
- 2007 **Master internship** - 6 month at École Polytechnique Montréal.
Title : Modeling the direct problem in axial tomography.
Advisor : Yves Goussard.
- 2004 – 2007 **Engineer studies at École Centrale Nantes**.
Major : « Signal Processing » (graduated in oct. 2007, with high honours).

Teaching activities

- ◇ **Head of the teaching department** « Métiers du multimédia et de l'internet » of IUT Meaux.
- ◇ **In charge of the courses** « Représentation et filtrage numérique » of the Computer Science Master at UPEM, and « Culture scientifique » at IUT Meaux.

Scientific activities

- ◇ **Research topics** : Majorization-Minimization methods for nonconvex optimization ; Preconditioning strategies for proximal algorithms ; Large scale inverse problems ; Image restoration ; Image reconstruction for tomography ; Linear unmixing for hyperspectral imaging ; Spectral analysis.
- ◇ **Co-advisor** of three PhD students A. Repetti (since dec. 2011), Y. Marnissi et F. Abboud (since dec. 2013).
- ◇ **Advisor** of several Master students (2012, 2013), through collaborations with French industrial companies (Saint-Gobain Recherche, Institut National de l'Audiovisuel) or academics (A. Benazza, SUP'COM Tunis, H. Talbot, A3SI ESIEE).
- ◇ **Reviewer** for several international journals (e.g., Inverse Prob., IEEE Trans. on Image Process., IEEE Trans. on Signal Process, J. Math. Imaging Vision), and international conferences (e.g., ICASSP, ICIP, EUSIPCO, ISBI). Member of the **Technical Program Comittee** of EUSIPCO'14.

Publications

- ◇ 9 journal papers.
- ◇ 17 conference papers.
- ◇ 4 invited conference papers.

- ◇ Best paper award at conference WHISPERS'12.