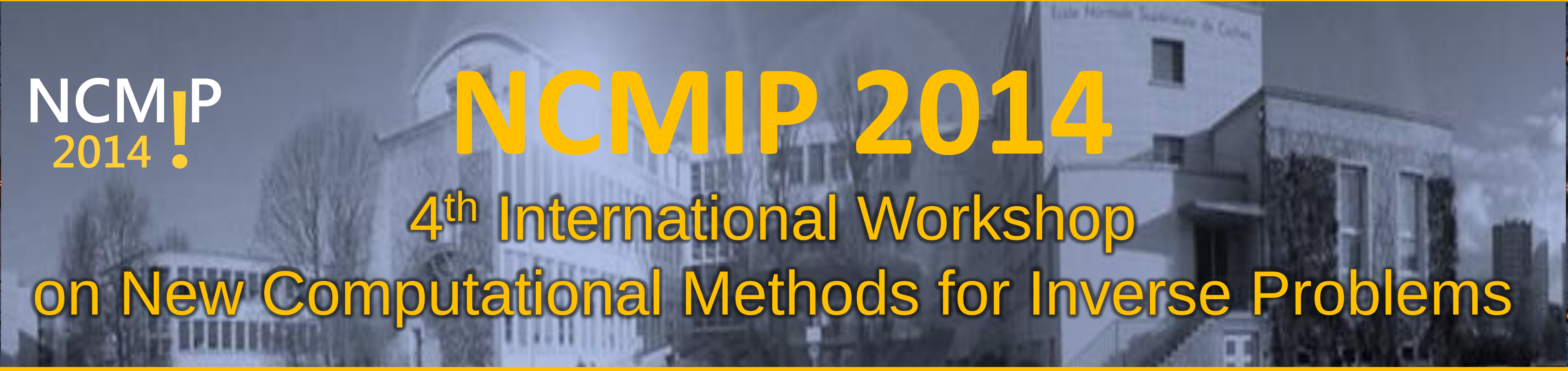




NCMIP 2014

4th International Workshop on New Computational Methods for Inverse Problems



Institut Farman
Ecole Normale Supérieure de Cachan, FRANCE








photo : Bruno DENIS / LURPA-ENS CACHAN

May 23, 2014

9:00	Welcome Coffee
9:30 - 10:20	<i>Low complexity regularization of inverse problems. Invited Talk</i> Gabriel Peyré CNRS and Université Paris-Dauphine, France.
10:20 - 10:40	<i>Stochastic diffusion equation with singular diffusivity and gradient-dependent noise in binary tomography.</i> Bruno Sixou* , Lin Wang*, Françoise Peyrin** *CREATIS, INSA-Lyon; Inserm, U1044; CNRS UMR 5220; Université Lyon 1; Université de Lyon, Lyon, France **ESRF, Imaging Group, Grenoble, France
10:40 - 11:00	<i>Inversion without Explicit Jacobian Calculations in Electrical Impedance Tomography.</i> Alexandre Fouchard*,** , Stéphane Bonnet*, Lionel Hervé*, Olivier David** *CEA, Leti, MINATEC, Grenoble, France **Université Joseph Fourier, Grenoble Institute of Neuroscience, La Tronche, France
11:00 - 11:30	Coffee Break
11:30 - 11h50	<i>Three-dimensional transient elastodynamic inversion using the modified error in constitutive relation.</i> Marc Bonnet* , Wilkins Aquino** *POems (UMR 7231 CNRS-INRIA-ENSTA), ENSTA, Palaiseau, France **Department of Civil and Environmental Engineering, Duke University, Durham, USA
11:20 - 12:10	<i>Goal-oriented updating of mechanical models.</i> Ludovic Chamoin* , Pierre Ladevèze* and Julien Waeytens** *LMT ENS Cachan/CNRS, Cachan, France **Paris-Est University, IFSTTAR, Marne-La-Vallée Cedex, France
12:10 - 12:30	<i>Physical Modeling of Microtubules Network.</i> Pierre Allain , Charles Kervrann Inria, Centre Rennes-Bretagne Atlantique, Rennes, France
12:30 - 14: 30	Lunch
14:30 - 15:20	<i>Innovative Compressive Sensing Approaches for Inverse Problems. Invited Talk</i> Andrea Massa , Giacomo Oliveri, Nicola Anselmi, Pingping Ding, and Lorenzo Poli ELEDIA Research Center, DISI @ University of Trento
15:20 – 15:40	<i>An alternating minimization method for blind deconvolution from Poisson data.</i> Marco Prato* , Andrea La Camera** and Silvia Bonettini*** *Dipartimento di Scienze Fisiche, Informatiche e Matematiche, Università di Modena, Italy **Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi, Università di Genova, Italy ***Dipartimento di Matematica e Informatica, Università di Ferrara, Italy
15:40 - 16:00	Coffee Break
16:00 - 16:50	<i>Fusion of hyperspectral and panchromatic images. Invited Talk</i> Jean-Yves Tourneret Institut de Recherche en Informatique de Toulouse, France
16:50 - 17:10	<i>Particle MCMC for bayesian microwave control.</i> Pierre Minvielle* , Adrien Todeschini**, François Caron***, Pierre Del Moral**** *CEA-CESTA, Le Barp, France **INRIA Bordeaux Sud-Ouest, Talence, France ***University of Oxford, UK ****UNSW, Sidney, Australia
17:10 - 17:30	<i>Optical imaging in a variational Bayesian framework.</i> Slimane Arhab* , Hacheme Ayasso**, Bernard Duchêne* and Ali Mohammad-Djafari* * L2S, UMR8506: CNRS - SUPELEC - Univ Paris Sud, France **GIPSA-lab, UMR5216: CNRS - Grenoble-INP, Univ. Joseph Fourier – Univ. Stendhal, Grenoble, France
17:30 - 17:50	<i>Influence of partial known paramaters on flaw characterization in Eddy Current Testing by using a ramdon walk MCMC method based on metamodeling.</i> Caifang Cai* , Thomas Rodet**, Dominique Lesselier* and Marc Lambert* *L2S-SUPELEC, Gif sur Yvette, France ** SATIE, ENS-Cachan, Cachan, France

The workshop is endorsed by the following research networks:

