Mathematics and Image Analysis 2004, MIA'04*
Scientific Program

All talks will take place in Amphi 8, second floor.

Monday, September 6th, 2004

Time	Speaker	Title
09:00 - 09:30		WELCOME BREAKFAST**
09:30 - 10:45	Leonidas Guibas	Local and Global Analysis for Point Cloud Data
10:45 - 11:15	Marco Cuturi	A Few Semigroup Kernels for Images seen as Bags of Pixels
11:15 - 11:45	Michael Bronstein	Expression-Invariant Representation Of Faces
11:45 - 12:15	Frederic Cao	Extracting meaningful curves from images
12:15 - 14:00		DEJEUNER - LUNCH**
14:00 - 15:15	Nira Dyn	Image Compression By Linear Splines Over Adaptive Triangulations
15:15 - 15:45	Simon Masnou	Image Compression Using Multiscale Nonlinear Interpolation
15:45 - 16:15		PAUSE CAFE - COFFEE BREAK**
16:15 - 16:45	Laurent Garcin	Geodesic Matching of Shapes via Quantization
16:45 - 17:15	Remco Duits	Invertible Orientation Bundle Functions based on Generalized Wavelet Theory
17:15 - 17:45	Gabriel Peyre	Second Generation Bandelets and their Application to Image and 3D Meshes Compression

Tuesday, September 7th, 2004

Time	Speaker	Title
9:00 - 10:45	Bernhard Schölkopf	Learning with Kernels
10:45 - 11:15		PAUSE CAFE - COFFEE BREAK**
11:15 - 11:45	Rene Vidal	Segmentation of Dynamic Scenes via Generalized Principal Component Analysis
11:45 - 12:15	Nicolas Brunel	Statistical Segmentation of Doppler Radar Image based on Generalised Markov Models and Directional Statistics
12:15 - 14:00		DEJEUNER - LUNCH**
14:00 - 15:45	Tony Yezzi	Active Contours and "Gradient" Flows: Metrics On The Space Of Curves
15:45 - 16:15		PAUSE CAFE - COFFEE BREAK**
16:15 - 16:45	Alfred Bruckstein	Variational Methods For Image Analysis: Do We Know What To Optimize For?
16:45 - 17:15	Roberto Ardon	Surface Extraction By Minimal Paths, Applications In 3d Medical Images
17:15 - 17:45	Ian Jermyn	Higher-Order Active Contours

Wednesday, September 8th, 2004

09:30 - 11:00	Baba Vemuri	Variational Methods for Diffusion Weighted MRI Restoration and Segmentation
11:00 - 11:30	Christophe Lenglet	Toward Cerebral White Matter Connectivity Estimation from Diffusion MRI
11:30 - 14:00		DEJEUNER - LUNCH**
14:00 - 15:45	Stan Osher	Using Geometry And Iterated Refinement For Inverse Problems. (1) Total Variation Image Restoration
15:45 - 16:15		PAUSE CAFE - COFFEE BREAK**
16:15 - 16:45	Seongjai Kim	Loss and Recovery of Fine Structures in PDE-based Image Denoising
16:45 - 17:15	Mathieu Desbrun	Discrete Differential Calculus
17:15 - 17:45	Emmanuel Prados	A Mathematical Framework Unifying Various Shape From Shading Approaches

Thursday, September 9th, 2004

9:00 - 10:45	Jean Serra	A Lattice Approach to Image Segmentation
10:45 - 11:15		PAUSE CAFE - COFFEE BREAK**
11:15 - 11:45	Evgueni Spodarev	A New Approach To The Computation Of Minkowski Functionals Of Polyconvex Sets
11:45 - 12:15	Jian-Feng Yao	Models For Mixed-States Data With Application To Analysis Of Video Sequences
12:15 - 14:00		DEJEUNER - LUNCH**
14:00 - 15:15	Nikos Paragios	Segmentation And Tracking Of The Left Ventricle In Echocardiography
15:15 - 15:45	S. Jehan-Besson	Shape Gradient For Image And Video Segmentation
15:45 - 16:15		PAUSE CAFE - COFFEE BREAK**
16:15 - 16:45	Daniel Cremers	Multi-modal Statistical Shape Priors and Intrinsic Alignment for Knowledge-driven Segmentation
16:45 - 17:15	Florent Ranchin	Moving Objects Segmentation Using Optical Flow Estimation

*Conference MIA'04 is organized by GDR CNRS MSPC with support of CEREMADE, Université Paris Dauphine, INRIA, Thales Air Defence, DGA and GET.
**Breakfast (first day only) and Coffee breaks will be complimentary in "Bar des Etudiants" next to Amphi 8. Lunch is not provided by the conference. Participants are free to get lunch from different places inside (Ground floor/Rez-de-Chaussée) or outside the university. Many restaurants can be found by taking the Bus PC1 (accross the street from the university) one or two stops away to Porte Maillot or Porte des Ternes or the Metro to Victor Hugo or Etoile one or two stations away.