MAIA 2016 : Programme (09/09/2016)

September 19-23, 2016 CIRM, Luminy, Marseille (France)

The titles are in bold face for "long talks"
The "*" in front of a title is to say that the talk will be saved as a video (see http://library.cirm-math.fr/Main.htm?context=2&lang=en)
More details about the conference at http://scientific-events.weebly.com/1444.html
More details about CIRM at http://www.cirm-math.com/

Everyday **b**

Breafast from 7:00 to 9:00
Lunch at 12:30
Dinner at 19:30
Lounge bar from 21:30 to 23:30

Poster session (Tuesday afternoon)

Mohamed	Addam	B-spline finite element method for dynamic deflection of beam deformation model
Vittoria	Bruni	Some applications of the wavelet transform with signal-dependent dilation factor
Paul	Escande	Estimation of linear integral operator from scattered impulse reponses
Evelyne	Hubert	A moment matrix approach to computing symmetric cubatures
Ali	Ibrahimoglu	On Computing the Derivative of the Lebesgue Function of Barycentric Rational Interpolation
Byeongseon	Jeong	Interpolatory and noninterpolatory Hermite subdivision schemes reproducing polynomials
Peter	Massopust	B-splines and Clifford algebra
Francesca	Pitolli	Less is enough: localizing neural sources by the random sampling method
Christophe	Rabut	Variational Bézier and B-splines curves
Valentina	Turati	Multigrid and Subdivision: grid transfer operators
Alberto	Viscardi	Irregular Tight Wavelet Frames (Matrix Approach)
Elena	Volontè	Anisotropic Diagonal Scaling Matrices and Subdivision Schemes in Dimension d
Hyoseon	Yang	Sixth-order Weighted essentially non-oscillatory schemes based on exponential polynomials

Monday Morning

08:50-9:00	Welcome	*Chairpersons: Carl de Boor/ Albert Cohen*	
9:00-9:50	Tomas	Sauer	**Prony's problem and superresolution in several variables: structure and algorithms**
9:50-10:15	Gerlind	Plonka	Sparse approximation by modified Prony method
10:15-10:45	Coffee break		
10:45-11:35	Philpp	Grohs	**Stable Phase Retrieval in Infinite Dimensions**
11:35-12:00	Bernard	Mourrain	Sparse multivariate polynomial-exponential representation and interpolation
12:00-12:25	Olga	Mula	Dictionary data assimilation for recovery problems
12:30	Lunch		

Monday afternoon *Chairpersons: Tom Lyche/Carla Manni*

16:00-17:00	Refreshments		
17:00-17:25	Anthony	Nouy	Adaptive Hierarchical low-rank approximation of multivariate functions using statistical methods
17:25-17:50	Hendrik	Speleers	Local approximation methods using hierarchical splines
17:50:18:15	Nora	Engleitner	Partially Nested Hierarchical B-Splines
18:15-18:35	Short break		
18:35-19:00	Nada	Sissouno	Adaption of tensor product spline spaces to approximation on domains
19:00-19:25	Juan Manuel	Pena	Recent advances on Accuracy and Stability in Approximation and C.A.G.D.
19:30	Dinner		

Tuesday Morning *Chairpersons: Kurt Jetter/ Gerlind Plonka*

9:00-9:50	Ole	Christensen	*** The unitary extension principle and its generalizations**
9:50-10:15	Brigitte	Forster	Directional time-frequency analysis via continuous frames
10:15-10:40	Joachim	Stoeckler	Methods for constructing multivariate tight wavelet frames
10:40-11:10	Coffee break		
11:10-11:35	Valérie	Perrier	Helmholtz-Hodge decomposition, Divergence-free wavelets and applications
11:35-12:00	Nira	Dyn	Reconstruction of 3D objects from their parallel 1D cross sections by "piecewise linear" interpolation
12:00-12:25	Bert	Juettler	Low Rank Spline Surfaces
12:30	Lunch		

Tuesday afternoon *Chairpersons: Tomas Sauer / Jesus Carnicer*

16:00-16:45	Refreshments		
16:45-17:35	Angela	Kunoth	*** 25+ Years of Wavelets for PDEs**
17:35-18:30			**Poster session**
18:30-18:55	Holger	Wendland	Kernel-based Discretisation for Solving Matrix valued PDEs
18:55-19:20	Karlheinz	Gröchenig	Sampling for solutions of the heat equation
19:30	Dinner		

Tuesday night

21:00 -22:30 Meeting on teaching and pedagogy, moderated by Christophe Rabut (room to be defined)

Wednesday Morning *Chairpersons: Christophe Rabut / Holger Wendland*

9:00-9:50	Greg	Fasshauer	*** Some Recent Insights into Computing with Positive Definite Kernels**
9:50-10:15	Gabriele	Santin	Non-symmetric kernel-based greedy approximation
10:15-10:40	Stefano	De Marchi	On the rescaled method for RBF approximation
10:40-11:10	Coffee break		
11:10-11:35	Milvia	Rossini	Applications of variably scaled kernels
11:35-12:25	Oleg	Davydov	**Error bounds for conditionally positive definite kernels without polynomial terms**
12:30	Lunch		

Wednesday afternoon

Co-working, library, walking, sea, cultural activities...
19:30 Dinner

Thursday Morning		*Chairpersons: Nira Dyn / Costanza Conti*		
	9:00-9:50	Maria	Charina	*** Multigrid and subdivision**
	9:50-10:15	Chongyang	Deng	A unified interpolatory subdivision scheme for quadrilateral meshes
	10:15-10:45	Coffee break		
(change made)	*10:45-11:10*	*Lucia*	*Romani*	*Convergence of corner cutting algorithms refining points and nets of functions*
(change made)	*11:10-11:35*	*Caroline*	*Moosmueller*	*Smoothing of vector and Hermite subdivision schemes*
(change made)	*11:35-12:00*	*Carla*	*Manni*	*Spline spaces over planar T-meshes and Extended complete Tchebycheff space*
	12:30	Lunch		
Thursday afternoon		*Chairpersons: Abderrahman Bouhamidi / Oleg Davydov*		
	16:00-17:00	Refreshments		
	17:00-17:50	Shai	Dekel	**Deep learning on Manifolds**
	17:50:18:15	Hartmut	Prautzsch	* Spherical Splines
	18:15-18:35	Short break		
	18:35-19:00	Ulrik	Reif	Approximation and Modeling with Ambient B-Splines (on manifolds)
	19:00-19:25	Jeremy	Levesley	Error estimates for multilevel Gaussian quasiinterpolation on the torus
	19:30	Conference dinner ("bouillabaisse")		
Friday Morning (9h-12h30)		*Chairperson : Michael Floater / Shai Dekel*		
	9:00-9:50	Jungho	Yoon	**Univariate Non-linear Approximation Scheme for Piecewise Smooth functions**
	9:50-10:15	Tom	Lyche	Simplex spline bases on the Powell-Sabin 12 split
	10:15-10:45	Coffee break		
	10:45-11:10	Carolina	Beccari	Rational Geometric Splines: construction and applications in the representation of smooth surfaces
	11:10-11:35	Mike	Neamtu	Recent Progress on RAGS
	11:35-12:25	Len	Bos	**Some Bivariate Generalizations of Berrut's Rational Interpolants**
	12:30	Lunch and departure		