

Thursday, October 15, 2009

09:00 *M. Charina, C. Conti, K. Jetter, G. Zimmermann*
Scalar Subdivision Schemes and Box Splines

10:00 *C. Conti, L. Gemignani, L. Romani*
From Approximating to
Interpolatory Subdivision Schemes

11:00 *Coffee Break*

11:30 *C. Gérot, I. Ivrissimtzis, M. Sabin*
Linear Combination of Subdivision Schemes

12:30 *Closing*

13:00 *Lunch*

Scientific Committee

C.. Conti, University of Florenee (Italy)
N. Dyn, University of Tel Aviv (Israel)
L. Gori, University of Rome “La Sapienza” (Italy)
F. Pitolli, University of Rome “La Sapienza” (Italy)

Organizing Committee

M.L. Lo Cascio, University of Rome “La Sapienza” (Italy)
R. Morandi, University of Florence (Italy)
L.. Sampoli, University of Siena (Italy)
E. Santi, University of L’Aquila (Italy)

Research Workshop on

SUBDIVISION and REFINABILITY

PROGRAM

Sponsored by:

Dept. Me.Mo.Mat. - Univ. of Rome “La Sapienza”

G.N.C.S. – INdAM

Progetto di Ateneo - Univ. of Rome “La Sapienza”
“Metodi Numerici e Probabilistici per
l’Ingegneria”

Pontignano (SI) - Italy
October 12-15, 2009

Monday, October 12, 2009

- 08:45** *Opening*
- 09:00** *R. Delgado, P. Tafti, C. Rabut, M. Unser*
Fractional Laplacians, Splines, Wavelets, and Fractal Processes
- 10:00** *L. Gori, F. Pitolli, E. Santi*
Refinable Functions and Shape Preserving Properties
- 11:00** *Coffee Break*
- 11:30** *D. Burkhart, G. Umlauf*
Optimizing Tetrahedral Subdivision Schemes for Finite-Element Applications
- 13:00** *Lunch*
- 15:00** **Working Groups**
- 20:00** *Dinner*

Tuesday, October 13, 2009

- 09:00** *N. Dyn, V. Protasov, T. Sauer, M. Skopina*
Sufficient Conditions for Smoothness of Subdivision Schemes with General Dilation Matrices: Analysis in the Sup-norm and in the Lp-norms
- 10:00** *C. Conti, M. Cotronei, T. Sauer*
Full Rank Interpolatory Subdivision Schemes: Factorizations, Filters and Encounters with the Multivariate World
- 11:00** *Coffee Break*
- 11:30** *J.L. Merrien, S. Dubuc, T. Sauer*
From Hermite Subdivision Schemes to Lagrange Subdivision Schemes
- 13:00** *Lunch*
- 15:00** **Working Groups**
- 20:00** *Dinner*

Wednesday, October 14, 2009

- 08:45** *P. Grohs, S. Harizanov, J. Wallner, A. Weinmann*
Proximity Methods in the Analysis of Subdivision Processes
- 09:45** *U. Reif, N. Lehmann, C. Möller*
Determining the JSR of Palindromic Matrices G¹-Error Bounds for Proxy Splines Geometric Subdivision
- 10:45** *Coffee Break*
- 11:15** *T. Cashman, M. Floater, R. Goldman, K. Hormann*
New Trends in Non-uniform Subdivision
- 12:15** *C. Conti, N. Dyn, O. Elisha, D. Levin*
Subdivision Schemes for Nets of Curves and Their Analysis by Proximity
- 13:30** *Lunch*
- 15:00** **Working Groups**
- 20:00** *Conference dinner*