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14. ABSTRACT

The Final Proceedings for Fifth International Conference on Curves and Surfaces, 27 June 2002 - 3 July 2002

This conference will cover topics related to approximation theory including interpolation, smoothing techniques, splines, radial basis functions, wavelets as well as practical aspects of geometric modeling, computer-aided design and mechanics.

15. SUBJECT TERMS
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Fifth International Conference organized by AFA-SMAI

CURVES and SURFACES

**June 27
July 3, 2002**

Saint-Malo (France)



PROGRAMME

Fifth International Conference

Organized by "AFA - SMAI" on

Curves and Surfaces

Programme

Saint-Malo, France

June 27 - July 3, 2002

AQ F04-09-1071

Acknowledgments

This conference is organized by "Association Française d'Approximation" (AFA),
an activity group of "Société de Mathématiques Appliquées et Industrielles" (SMAI),

in collaboration with the following institutions:

- Université Joseph Fourier (Grenoble I),
- Institut National des Sciences Appliquées de Rennes,
- Université Pierre et Marie Curie (Paris VI),
- Université de Rennes I,
- Ecole Nationale Supérieure des Arts et Métiers de Lille,
- Université Paul Sabatier (Toulouse III),
- Université de Valenciennes et du Hainaut-Cambrésis,

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- Ministère de la Défense : Service de la Recherche et des Etudes Amont (SREA) de la Direction des Systèmes de Forces et de la Prospective (DSP),
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- Institut d'Informatique et de Mathématiques Appliquées de Grenoble (IMAG),
- Institut National des Sciences Appliquées de Rennes,
- Université Joseph Fourier (Grenoble I),
- Université Paul Sabatier (Toulouse III),
- Institut Universitaire de France (IUF),
- Centre National de la Recherche Scientifique (CNRS),
- Institut National de la Recherche en Informatique et Automatique (INRIA),
- European Mathematical Society.

We wish to thank all of them for their contribution to the success of this conference.

The organizers:

Albert Cohen, Université Pierre et Marie Curie, Paris, France,
Tom Lyche, University of Oslo, Norway,
Marie-Laurence Mazure, Université Joseph Fourier, Grenoble, France,
Jean-Louis Merrien, Institut National des Sciences Appliquées de Rennes, France,
Larry L. Schumaker, Vanderbilt University, Nashville, USA.

Invited talks

- Thursday, June 27, 9:15-10:15
Encoding of Digitized Surfaces
R. A. DeVore, University of South Carolina, Columbia (USA)
- Thursday, June 27, 14:30-15:30
Interpolation by Translates of a Basic Function
Will Light, University of Leicester (England)
- Friday, June 28, 8:30-9:30
Marching on Triangulated Domains
R. Kimmel, Technion, Haifa (Israel)
- Friday, June 28, 14:30-15:30
Discretization of Certain Curves and Surfaces via Minimization of Energy or Lebesgue Constants
E. B. Saff, Vanderbilt University, Nashville (USA)
- Saturday, June 29, 8:30-9:30
Curve and Surface Meshing for Finite Element Applications
Paul-Louis George, INRIA, Le Chesnay (France)
- Monday, July 1, 8:30-9:30
Subdivision for Modeling and Simulation
Peter Schröder, Caltech, Pasadena (USA)
- Monday, July 1, 14:30-15:30
Constrained Fitting for Multiple Surfaces
Tamás Várady, Computer and Automation Research Inst., Budapest (Hungary)
- Tuesday, July 2, 8:30-9:30
Minkowski Geometric Algebra of Complex Sets
Rida T. Farouki, University of California, Davis (USA)
- Tuesday, July 2, 14:30-15:30
A Link between Statistics and Approximation Theory
Pascal Massart, Université de Paris-Sud, Orsay (France)
- Wednesday, July 3, 11:00-12:00
Sparse Geometrical Image Representations with Bandelets
Stéphane Mallat, Ecole Polytechnique, Palaiseau (France)

Mini-symposia

Radial Basis Functions and Applications

Thursday, June 27, 16:00, room Grand Bé

Organizer : Robert Schaback, University of Göttingen, Germany
Speakers : Michael J.D. Powell, University of Cambridge, UK
Michael Johnson, Kuwait University, Safat, Kuwait
Holger Wendland, University of Göttingen, Germany
Aurelian Bejancu, University of Leeds, UK
Greg Fasshauer, IIT, Chicago, USA

Keywords: *Radial basis functions, scattered data, interpolation, approximation, partial differential equations, neural networks, sphere.*

Abstract: Radial Basis Functions are a convenient and effective tool for constructing curves, surfaces, and general multivariate functions from scattered data. Their theory is closely connected to reproducing kernel Hilbert spaces, and their applications range from interpolation and approximation to neural networks and the numerical solution of partial differential equations.

Altogether, this conference will have about 20 contributions concerning radial basis functions and related topics. The talks can be grouped as follows:

- 1 . General
- 2 . Applications to PDE
- 3 . Zonal Functions on the Sphere
- 4 . Applications to Neural Networks or Wavelets

Due to space limitations, only the first group will form the minisymposium. However, participants are strongly encouraged to attend also the talks of the other groups.

Surface Parameterization

Friday, June 28, 10:00, room Grand Bé

Organizer : Michael S. Floater, SINTEF, Blindern, Norway
Speakers : Craig Gotsman, Technion, Israel
Eric de Sturler, Urbana-Champaign, Illinois, USA
Mathieu Desbrun, Caltech, USA
Kai Hormann, University of Erlangen-Nürnberg, Germany
Hugues Hoppe, Microsoft, Redmond, USA

Abstract: A parametric surface is defined by a one-to-one mapping $\phi : \Omega \rightarrow \mathbb{R}^3$, with $\Omega \subset \mathbb{R}^2$ the parameter domain, and we call ϕ a *parameterization* of the surface $s = \phi(\Omega)$. This minisymposium deals with the construction of parameterizations of various kinds of surfaces: typically triangle meshes and more general polygonal meshes, but also point clouds. In practice, given s , we construct a mapping $\psi : s \rightarrow \mathbb{R}^2$ from the surface s into the plane, and let $\phi = \psi^{-1}$.

Such parameterizations have many applications, among them: parametric scattered data fitting; triangulation of point clouds; texture mapping; morphing; remeshing; reparameterization of spline surfaces; and repair of CAD models. Parameterization is also closely related to grid generation for solving PDE's.

In most applications, a "good" mapping ψ is one which is one-to-one and has low deformation in some sense. One of the main approaches is to take ψ to be some approximation of a harmonic map, which minimizes Dirichlet energy and leads to the solution of a linear system. However, several issues arise, such as how to choose the boundary of the parameter domain or whether it should be generated automatically, when can we guarantee that ψ is one-to-one, and whether non-linear methods can further reduce deformations. This minisymposium will hopefully provide some answers and will probably raise further questions.

Effective Computational Geometry for Curves and Surfaces

Friday, June 28, 17:00, room Grand Bé

Organizer : Jean-Daniel Boissonnat, INRIA, Sophia-Antipolis, France

Speakers : Joachim Giesen, ETH, Zurich, Switzerland

Bernard Mourrain, INRIA, Sophia Antipolis, France

Jean-Marie Morvan, Université Claude Bernard, Lyon, France

Gert Vegter, University of Groningen, the Netherlands

Dinesh Manocha, University of North Carolina, Chapel Hill, USA

Abstract: Geometric computing plays a central role in most engineering activities: geometric modelling, computer aided design and manufacturing, computer graphics and virtual reality, scientific visualization, geographic information systems, molecular biology, fluid mechanics, and robotics are just a few well-known examples. The rapid advances in visualization systems, networking facilities and 3D sensing and imaging make geometric computing both dominant and more demanding of effective algorithmic solutions.

Computational geometry emerged as a discipline in the seventies and has met with considerable success in resolving the asymptotic complexity of basic geometric problems including data structures, convex hulls, triangulations, Voronoi diagrams, geometric arrangements and geometric optimisation. However, in the mid-nineties, it has been recognized that the applicability in practice of the computational geometry techniques was far from satisfactory and a vigorous effort has been undertaken to make computational geometry more effective.

The minisymposium illustrates some new research directions towards that goal.

B. Mourrain will discuss the interaction between computer algebra and geometry. Several operations on nonlinear geometric objects are equivalent to manipulating polynomials. Examples are boundary evaluation in solid modeling, proximity queries, robot motion planning and generalized Voronoi diagrams. A fundamental question is the solution of algebraic systems, ubiquitous in the construction of new objects, such as intersections, curve decompositions into monotone arcs, surface meshes. Besides modelling a rich class of objects, polynomials allow us to employ powerful and robust symbolic-numeric techniques in order to overcome the limitations of black-box solvers of standard computer algebra systems, which are not fast enough, cannot handle approximate data, nor exploit the underlying geometry.

Earlier algorithms dealing with algebraic primitives either use fixed precision arithmetic or techniques from symbolic computation. While the former can be inaccurate, the latter is considered too slow in practice. D. Manocha will present efficient representations and algorithms for reliable computations with algebraic numbers. These representations are used to efficiently perform geometric queries

like inside/outside tests, which-side or orientation tests as well as solving univariate and multi-variate polynomial systems. The overall approach combines different techniques from symbolic computation based on exact arithmetic with floating point arithmetic. These include algebraic curve classification, multi-variate Sturm sequences, and multi-polynomial resultants. The applications of the method is demonstrated to efficient and reliable computation of curve and surface intersections, boundary evaluation and medial axis computations. In practice, it is more than two orders of magnitude faster as compared to earlier implementations that produced reliable results. Some of the algorithms have been implemented as part of two public domain packages, MAPC and PRECISE.

Since algorithms for curves and surfaces are more involved, harder to ensure robustness, and typically several orders of magnitude slower than their linear counterparts, there is a need for approximate representations. J.-M. Morvan will establish a link between classical differential geometry and discrete geometry. He will show how one can define discrete analogs of the usual geometric invariants (normals, areas, curvatures) for polyhedral surfaces and obtain approximation and convergence results.

Surface reconstruction from unorganised point sets has received considerable attention in the past but it is only very recently that theoretical results on the quality of these methods have been obtained in 2 and 3 dimensions. A major issue though is to be able to reconstruct surfaces with boundary, sharp features and singularities. Another important issue is the time and space requirements of the reconstruction algorithms since data sets typically consist nowadays of millions of points. J. Giesen will survey the most recent results in this rapidly evolving area.

Shape evolution through time involve to handle changes in topology and the occurrence of singularities upon deformation and a good understanding of these phenomena requires applying Morse theory and, more generally, singularity and catastrophe theory, which provide us with local universal models of change of form (bifurcations). G. Vegter will consider the important special case of apparent contours of smooth surfaces.

Industrial Geometry

Saturday, June 29, 10:00, room Grand Bé

Organizer : Bert Jüttler, University of Linz, Austria

Speakers : Ray Sarraga, General Motors, Warren MI, USA

Thomas A. Grandine, Boeing, Seattle WA, USA

Gundolf Haase, University of Linz, Austria

Martin Peternell, Research Center Seibersdorf, Vienna, Austria

Steffen Wahl, ICEM, Herrenberg, Germany

Keywords: *Surface modification, parametric design, optimal sizing, object reconstruction, surface matching.*

Abstract: The talks in this minisymposium will focus on recent research dealing with problems which are related to industrial applications of computer aided geometric design. The five speakers, representing different industries and industry-related research, will present methods for generating, modifying and optimizing curves and surfaces, subject to design constraints and/or mechanical constraints. This includes methods for reconstructing geometrical objects from large data sets in computer vision, for optimizing the shape of an object subject to mechanical constraints in structural mechanics, and for modifying CAD models in order to adapt them to the results of numerical and/or practical simulations in automotive industry. Further topics to be addressed are the parametric design of objects in aircraft industry, and software tools for generating tangent and curvature continuous surfaces. It is hoped that this minisymposium will contribute to bridging the gap between the beautiful mathematics of curves and surfaces and their applications in industry.

Sparse Grids

Saturday, June 29, 14:30, room Grand Bé

Organizer : Michael Griebel, University of Bonn, Germany

Speakers : Hans-Joachim Bungartz, University of Stuttgart, Germany

Jochen Garcke, University of Bonn, Germany

Markus Hegland, ANU, Canberra, Australia

Christoph Schwab, ETH, Zurich, Switzerland

Stefan Achatz, TUM, München, Germany

Abstract: Using so-called sparse grids, the discrete representation of a d -dimensional function employs only $O(N(\log N)^{d-1})$ grid points, where N denotes the mesh-size in one dimension. The achieved accuracy is nearly the same as the one obtained on conventional uniform grids where $O(N^d)$ points must be used, provided that a certain smoothness prerequisite is fulfilled. Thus, sparse grids promise to break, at least to some extent, the curse of dimension for higher dimensional problems.

The basic idea can be traced back to Korobov and Smolyak. The approach is also known under the names (discrete) blending method, Boolean method, and hyperbolic cross points.

Meanwhile, very interesting applications of sparse grids have been developed which are reflected in this minisymposium. Here we discuss new sparse grid approaches for the efficient treatment of partial differential equations, for numerical integration, for data mining in the case of classification and regression, as well as for homogenization in mathematical modeling.

Wavelet Approximation and Applications

Monday, July 1, 10:00, room Grand Bé

Organizer : Zuowei Shen, University of Singapore

Speakers : Christophe Bernard, Ecole des Mines de Paris, Fontainebleau, France
Thierry Blu, Ecole Polytechnique Fédérale, Lausanne, Switzerland
Albert Cohen, Université Pierre et Marie Curie, Paris, France
Wolfgang Dahmen, RWTH, Aachen, Germany
Amos Ron, University of Wisconsin, Madison, USA

Keywords: *Wavelet, frames, adaptive algorithms.*

Abstract: Wavelet approximations and their efficient applications rely on two basic ideas (i) the ability to choose adaptively and flexibly a 'best representation' of functions from a unified family of representers, and (ii) non-linear approximation theory and the corresponding algorithms based on the multiresolution analysis. This combination allows the formulation of efficient and robust tools to various applications.

In this symposium, we invite researchers and experts in the area to demonstrate the wide spectrum of wavelet approximation theory and its applications. The talks in the symposium are related to the following topics (i) the theory of wavelet frames and more general the theory of redundant systems in a generalized shift invariant space, (ii) adaptive multiscale approximation and optimizing basis search for the best approximation, (iii) wavelet methods for nonlinear problem and scattered data interpolation.

Image Synthesis

Monday July 1, 17:00, room Grand Bé

Organizer : François Sillion, INRIA, Grenoble, France

Speakers : Michael Stark, University of Utah, USA
Leif Kobbelt, Aachen University of Technology, Germany
Craig Gotsman, Technion, Israel
François Sillion, iMAGIS - GRAVIR/IMAG INRIA, France

Abstract: This minisymposium is focused on the usage of curves and surfaces for image synthesis. The "traditional" paradigm in which objects were modeled using surface descriptors (polygons, parametric or implicit surfaces), then animated and rendered is being challenged by recent scientific and technological advances. In particular, the various applications of image synthesis call for adapted surface models, ranging from parametric descriptions to point samples, with an additional desire for intermediate levels of complexity over a wide range of simplifications. In this minisymposium we will hear about the use of multi-resolution splines for rendering, in a consistent framework that joins shape modeling and lighting simulation; high quality rendering from point sampled geometry, a particularly challenging form of description for continuous surfaces; efficient rendering of progressive meshes; and the simplification of very complex 3D models using sets of billboards.

Nonlinear Approximation

Tuesday, July 2, 10:00, room Grand Bé

Organizer : V.N. Temlyakov, University of South Carolina, Colombia, USA
Speakers : Vladimir Temlyakov, University of South Carolina, Columbia, USA
Gérard Kerkycharian, Université Paris, France
Dung Dinh, Vietnam National University, Hanoi, Vietnam
Anna Kamont, IMPAS, Sopot, Poland
Rémi Gribonval, IRISA-INRIA, Rennes, France

Keywords: *Nonlinear approximation, greedy basis, quasi-greedy basis, democratic basis, Haar basis, duality.*

Abstract: Our main interest is nonlinear approximation. The basic idea behind nonlinear approximation is that the elements used in the approximation do not come from a fixed linear space but are allowed to depend on the function being approximated. While the scope of this minisymposium is mostly theoretical, we should note that this form of approximation appears in many numerical applications such as adaptive PDE solvers, compression of images and signals, statistical classification, and so on. The standard problem in this regard is the problem of m -term approximation where one fixes a basis and looks to approximate a target function by a linear combination of m terms of the basis. When the basis is a wavelet basis or a basis of other waveforms, then this type of approximation is the starting point for compression algorithms. We are interested in the quantitative aspects of this type of approximation. Namely, we want to understand the properties (usually smoothness) of the function which govern its rate of approximation in some given norm (or metric). We are also interested in stable algorithms for finding good or near best approximations using m terms. Some of earlier work has introduced and analyzed such algorithms. More recently, there has emerged another more complicated form of nonlinear approximation which we call highly nonlinear approximation. It takes many forms but has the basic ingredient that a basis is replaced by a larger system of functions that is usually redundant. Some types of approximation that fall into this general category are mathematical frames, adaptive pursuit (or greedy algorithms) and adaptive basis selection. Redundancy on the one hand offers much promise for greater efficiency in terms of approximation rate, but on the other hand gives rise to highly nontrivial theoretical and practical problems. With this motivation, our recent work and the current activity focuses on nonlinear approximation both in the classical form of m -term approximation (where several important problems remain unsolved) and in the form of highly nonlinear approximation where a theory is only now emerging.

Subdivision Techniques, Recent Trends and Applications

Tuesday, July 2, 17:00, room Grand Bé

Organizer : Leif Kobbelt, Aachen University of Technology, Germany
Speakers : Charles Loop, Microsoft, Redmond WA, USA
Martin Rumpf, University of Duisburg, Germany
Joe Warren, Rice University, Houston TX, USA
Denis Zorin, New York University, New York NY, USA

Keywords: *Subdivision surfaces, polygon meshes.*

Abstract: Many subdivision schemes for smooth freeform surface generation have been developed over the last two decades. Today, the basic theoretic questions about the smoothness analysis and approximation properties have been solved and there is an extensive repository of techniques available to solve the most common geometric design problems. In the current state of maturity, subdivision surfaces are starting to be integrated in commercially available modeling systems due to their improved flexibility compared to classical CAD representations based on NURBS.

In this mini-symposium some of the subdivision pioneers and other well-known researchers are reporting on their recent developments in this area. The four talks put highlights on respective results which are prototypic for the very active research area of subdivision surfaces.

Charles Loop from Microsoft Research is presenting his latest results on generalized subdivision schemes which are able to handle meshes that are made out of a mixture of triangles and quads. These schemes coincide with well-known standard schemes in all-triangle or all-quad regions but still guarantee C^1 smoothness in regions where triangles and quads meet.

Martin Rumpf (Duisburg University) demonstrates a new approach to variational subdivision – a technique where shape optimization (fairing) is combined with the subdivision mesh refinement paradigm. His approach is based on a geometric filter operation that models the evolution of a membrane surface over time.

Joe Warren (Rice University) presents a new and simple scheme for the exact generation of surfaces of revolution. This is one of the major requirements if subdivision surfaces are to be used in real life CAD applications since many technical parts are of this type.

Finally, *Denis Zorin* (New York University) reports on his latest results concerning the application of subdivision surfaces in the context of numerical simulation. Many of these problems such as 3D deformation can be reduced to 2D boundary integral equations. Hence, in order to use subdivision surfaces as a boundary representation, we have to derive quadrature rules for integrating functions defined on subdivision surfaces.

3D-Meshing for Simulation and Visualization

Wednesday, July 3, 8:30, room Grand Bé

Organizer : Günther Greiner, University of Erlangen-Nürnberg, Germany

Speakers : Chris Johnson, University of Utah, Salt Lake City, USA

Martin Rumpf, University of Duisburg, Germany

Roberto Grosso, University of Erlangen-Nürnberg, Germany

Günther Greiner, University of Erlangen-Nürnberg, Germany

Abstract: Meshing of two-dimensional objects is a well-established procedure and widely used for displaying and analyzing surfaces. In addition it is a basis for refining and coarsening the geometry, e.g. by subdivision and mesh reduction algorithms respectively. Moreover, meshing produces a discretization of the 2D-object, thus making it accessible to numerical simulations, e.g. by a finite element analysis. This very last aspect is for three-dimensional domains even more important, particularly with regard to applications. Therefore, in recent years much attention has been given to the generation, manipulation and administration of 3D-meshes. The performance of numerical simulations as well as visualization algorithms crucially depends on the size and the quality of the mesh.

In the minisymposium we report on recent developments in the area of 3D-meshing. Special attention will be given to the integration of simulation and visualization, to the generation, storage and administration of adaptive grids as well as to subdivision methods for 3D meshes. The focus of these presentations is not restricted to the theoretical concepts. Instead, concrete examples from technical application fields as well as from medicine will play an important role.

Thursday Morning

9:00-9:15 **Welcome. Room : Grand Bé**

9:15-10:15 **Plenary Session**

Room : Grand Bé
Encoding of Digitized Surfaces
R. A. DeVore

Chair : Marie-Laurence Mazure

10:15-10:45 **Coffee Break**

Room : Fréhel
Chair : Rida Farouki

Room : Grand Bé
Chair : Joe Warren

Room : Grouin
Chair : Ron DeVore

10:45 **Olivier Gíbaru*, Jean-Charles Fiorot**
(SBR) Surfaces with Base Points

10:45 **Helmut Pottmann**
A Geometric Approach to Optimization with Moving and Deformable Objects

10:45 **K. Höllig*, J. Hörner, A. Kopf**
Finite Element Approximation with Splines

11:10 **Pascal J. Frey*, Houman Borouchaki**
Simplification of Terrains by Minimization of the Local Deformation

11:10 **Helmut Pottmann, Stefan Leopoldseder***
Recognition and Reconstruction of Translational Surfaces and Ruled Surfaces

11:10 **Tanya M. Morton**
Two Approaches for Solving Pseudodifferential Equations on Spheres using Spherical Radial Basis Functions

11:35 **V. Skytt*, S. Briseid**
Tangent Plane Continuity between Adjacent Parametric Surfaces

11:35 **Heidrun Mühlthaler*, Helmut Pottmann**
Classical Geometric Methods for the Computation of Minkowski Sum Boundary Surfaces

11:35 **A. Crampton, D. Lei*, J.C. Mason**
A Fast Algorithm for Solving a Linearized SVM Problem

12:00 **Julien Villard*, Houman Borouchaki**
Cloth Simulation Using Adaptive Meshing

12:00 **Rida T. Farouki, Carla Manni, Alessandra Sestini***
Spatial C² PH Quintic Spline Curves

12:00 **L. De Floriani*, M. Lee**
Incremental Selective Refinement on Hierarchical Tetrahedral Meshes

Speaker*

Thursday Afternoon

14:30-15:30 Plenary Session

Chair : Carl de Boor

Room : Grand Bé

Interpolation by Translates of a Basic Function
Will Light

15:30-16:00 Coffee Break

Room : Fréhel

Chair : Tamas Varady

16:00 Nira Dyn, Michael S. Floater,
Armin Iske*
*Adaptive Thinning for Bivariate Scattered
Data*

Room : Grand Bé
Chair : Robert Schaback

16:00 M.J.D. Powell
*Radial Basis Function Interpolation on Man-
ifolds*

16:25 M. Luzon, E. Pavlov, M. Bercovier*
*Reverse Engineering from Noisy Data of Ob-
jects Defined by Algebraic Surface Patches*

16:25 Michael J. Johnson
*Employing Dilatation in RBF Interpolation to
Increase Robustity*

16:50 Serban D. Porumbescu,
Peer-Timo Bremer*, Bernd Hamann,
Kenneth I. Joy
*Automatic Construction of B-spline Surfaces
from Adaptively Sampled Distance Fields*

16:50 Francis J. Narcowich, Joseph D. Ward,
Holger Wendland*
*Refined Error Estimates for Radial Basis
Function Interpolation*

17:15 Chris Venter, Ben Herbst*
*Structure from Motion Using a Nonlinear
Kalman Filter*

17:15 A. Bejancu
*Semi-Cardinal Interpolation for Multivariable
Splines*

17:40 Leonardo Traversoni
*Projective and Quaternionic Reconstruction
of Objects*

17:40 Greg Fasshauer
*Approximate Moving Least-Squares Approx-
imation: A Fast and Accurate Multivariate
Approximation Method*

18:15 Welcome party

Room : Grouin

Chair : Carla Manni

16:00 Paolo Costantini*, Carla Manni
*Geometric Construction of Spline Curves with
Tension Properties*

16:25 Mladen Rogina*, Tina Bosner
A de Boor Type Algorithm for Tension Splines

16:50 F. Feraudi
*Surface Least Square Approximation: a Shape
Preserving Approach*

17:15 A. Crampton, D.P. Jenkinson,
S.C. Kendall*, J.C. Mason
*Shape Preserving Approximation with Large
Sets of Scattered Data*

17:40 B. Kvasov
*Difference Method for Constructing Shape-
Preserving Spline Approximations*

Friday Morning

8:30-9:30 Plenary Session

Room : Grand Bé

Chair : Michel Bercovier

Marching on Triangulated Domains
R. Kimmel

9:30-10:00 Coffee Break

Room : Fréhel

Room : Grand Bé

Room : Grouin

Chair : Paul-Louis George

Chair : Michael Floater

Chair : Christophe Rabut

10:00 **André Lieutier**
Medial Axis Homotopy

10:00 **Craig Gotsman**
Spectral Methods for Parameterization of 2D and 3D Meshes and Applications in Morphing

10:00 **David Donoho, Nira Dyn, Peter Schröder, Victoria Stodden***
Multiresolution Representation and Subdivision on Curves and Surfaces in Symmetric Spaces

10:25 **Nguyen Dong Ha**
A Practical Approach to Manipulating Topological Maps

10:25 **Eric de Sturler**
Accuracy and Algorithmic Issues in Surface Parameterization

10:25 **Nira Dyn*, David Levin, Jo Simoens**
Face Value Subdivision Schemes on Triangulations

10:50 **F. Gannaz*, B. Lacolle**
Convex Approximation and Norm Approximation

10:50 **Mathieu Desbrun**
Smooth Parameterization of Meshes and Applications

10:50 **Paul Sablonnière**
Algorithms for Tensor Products of C^1 Merrien Subdivision Schemes

11:15 **Joab R. Winkler*, Ronald N. Goldman**
The Sylvester Resultant Matrix for Bernstein Polynomials

11:15 **Kai Hormann**
Triangulating Unorganized Points

11:15 **C. Conti, G. Zimmermann***
Interpolatory Vector Subdivision Schemes

11:40 **Zur Izhakiyan*, Alfred Inselberg**
Polynomial Curves in Parallel Coordinates : Results and Constructive Algorithm

11:40 **X. Gu, S. Gortler, H. Hoppe***
Geometry Images

11:40 **J. de Villiers, K. Goosen*, B. Herbst**
Dubuc-Deslauriers Subdivision for a Finite Interval

12:05 **H. Wang*, J. Kearney, K. Atkinson**
Arc-Length Parameterized Spline Curves for Real-Time Simulation

12:05 **Valery A. Zheludev*, Amir Z. Averbuch**
Interpolatory Subdivision Schemes Generated by Splines

Friday Afternoon

14:30-15:30 Plenary Session

Chair : Dany Leviatan

Room : **Grand Bé**

Discretization of Certain Curves and Surfaces via Minimization of Energy or Lebesgue Constants
E. B. Saff

15:30-17:00 Coffee Break and Plenary Poster Session
 (See next page)

Room : **Fréhel**

Room : **Grouin**

Chair : Jörg Peters

Chair : Jean-Daniel Boissonnat

Chair : Will Light

17:00 **K. Karčiauskas*, J. Peters**
Tensor-Border Nets and Patches

17:00 **Joachim Giesen**
Recent Achievements in Delaunay Based Surface Reconstruction

17:00 **W. zu Castell**
Decomposition of the Inverse Fourier Transform of 1-radial Functions and Derivatives

17:25 **K.-H. Brakhage**
Fast Approximation for Tensor Product Structures with Applications for Blending

17:25 **B. Mourrain**
Algebraic Methods for Implicit Curves and Surfaces

17:25 **Jungho Yoon**
Error Estimates for Radial Basis Function Interpolation in Sobolev Spaces

17:50 **K.-H. Brakhage, F. Bramkamp, Ph. Lamby*, S. Müller**
B-Spline based Grid Generation and Grid Representation for H-adaptive Finite Volume Discretizations

17:50 **J.-M. Morvan**
Approximation of the Curvatures of a Smooth Surface

17:50 **T. Werther**
Characterization of Semi-Hilbert Spaces with Application in Scattered Data Interpolation

18:15 **Martin Bertram*, Hans Hagen**
Recursively Generated Graph Surfaces

18:15 **Gert Vegter**
Evolution of Apparent Contours of Smooth Surfaces

18:15 **W. Chen**
Kernel and Wavelet RBFs Based on Fundamental and General Solutions of Partial Differential Equations

18:40 **Stephen Mann**
Polynomial Precision Clough-Tocher Interpolants

18:40 **Dinesh Manocha**
Efficient and Accurate Computations with Algebraic Primitives for Geometric Applications

18:40 **H. N. Mhaskar**
A Converse Theorem for Approximation by Gaussian Networks

Friday Afternoon

15:30-17:00

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- D. Amar***, B. Mourrain, M. Yvinec
Approximating an Implicit Curve or Surface
- L. Amodei**
Reproducing Kernels and Differential Riccati Equations
- Alexander Belyaev**
Taylor Series Methods for Curvature Estimation and Curvature Extrema Detection
- C.S. Chen***, C.H. Ho, Xin Li
Quasi-interpolation Using Radial Basis Functions for Poisson Problems
- Sung Woo Choi**
Monotone-Visibility: a Non-differentiable Generalization of Semi-convexity for Planar Shapes
- Laurent Demaret***, Armin Iske
Adaptive Thinning in Image Compression
- Patrick Chenin, Rémi Dersarce***
Ray Casting by Subdividing Algebraic Equations
- Françoise Foucher***, Paul Sablonnière
Bimonotonicity Preserving Surfaces Defined by Tensor Products of C^1 Merrien Subdivision Schemes
- R. Goldenthal***, M. Bercovier
Spline Curve Approximation and Design by Optimal Control over the Knots
- Aram Gómez Neri**
Quaternion Splines and Projective Duality.
- D. Apprato, D. Ducassou, C. Gout***, E. Laffon
A Segmentation Process under Interpolation Conditions
- I.P. Ivriissimtzis***, H-P. Seidel
Subdivision Rules for n -dimensional Simplicial Complices
- M. Khachan***, F. Guibault
Medial Surface Reconstructions on Profiled Interpolated NURBS Surfaces
- S. Meignen***, V. Perrier
Texture Scale and Image Segmentation Using Wavelet Filters
- Laureano Gonzalez-Vega, Ioana Necula, Jaime Puig-Pey***
Manipulating 3D Implicit Surfaces by using Differential Equation Solving and Algebraic Techniques
- B. Jüttler, J. Schicho, M. Shalaby***
Spline Implicitization of Planar Curves
- Yuan Y. Tang***, X. C. Feng
A Wavelet-based Approach to Harmonic Transformation
- A. Mazroui, D. Sbibi, A. Tijimi***
A New Method for Computing a Composite PS Finite Element of Class C^k
- E. Vanraes***, A. Bultheel
Overview of Powell-Sabin Spline Subdivision and Wavelets
- Y.A. Vershinin**
Three-Dimensional Digital Surface Reconstruction

Saturday Morning

8:30-9:30 Plenary Session

Room : Grand Bé

Chair : Wolfgang Dahmen

Curve and Surface Meshing for Finite Element Applications
Paul-Louis George

9:30-10:00 Coffee Break

Room : Fréhel

Chair : Ron Kimmel

Room : Grand Bé

Chair : Bert Jüttler

10:00 **M. Sabin*, L. Barthe**
The Analysis and Control of Artifacts in Sub-division Surfaces

10:00 **Ramon F. Sarraga**
Automatic Surface Modification Based on Finite-Element Node Displacements

Room : Grouin
Chair : Ed Saff

10:00 **Andreas Lorange, Knut Mørken***
Stable Spline Wavelets on Nonuniform Knots

10:25 **Günther Nürnberger**
Local Lagrange Interpolation by Cubic Splines on Triangulations

10:25 **Thomas A. Grandine*, Thomas A. Hogan**
Parametric Design using High-Accuracy Hermite Interpolation

10:25 **T. Sauer**
Approximation Order of Refinable Functions via Quotient Ideals of Laurent Polynomials

10:50 **V. Borrelli, F. Cazals*, J.-M. Morvan**
On the Angular Defect of Triangulations and the Pointwise Approximation of Curvatures

10:50 **G. Haase*, U. Langer, E. Lindner, W. Mühlhuber**
Optimal Sizing and Shape Optimization in Structural Mechanics

10:50 **E. Quak**
Computation of Nonuniform Spline Wavelets

11:15 **J. Gableitner*, B. Jüttler, J. Schicho**
Approximate Parameterization of Planar Cubic Curve Segments

11:15 **M. Peternell**
Reconstructing Objects with Planar Faces

11:15 **A. Petukhov**
Wavelet Frames and Their Applications to Wireless Transmission

11:40 **A. Sheffer**
A Priori and a Posteriori Measurement of Parameterization Error

11:40 **S. Wahl**
Tangent and Curvature Continuous Matching of Surface Patches from the Practical Point of View

11:40 **Thomas P.-Y. Yu**
Nonlinear Pyramid Transforms and Nonlinear Subdivision Schemes Based on Median-Interpolation: some Recent Results

12:05 **F. Guibault*, P. Labbé, M. Khachan, H. Deddi**
Efficient Arc Length Computation of Trimming NURBS Curve on a NURBS Surface

12:05 **J. K. Eberharter, B. Ravani***
Curves and Surfaces on Study's Quadric

Saturday Afternoon

Room : **Fréhel**
Chair : Günther Nürnberger

Room : **Grand Bé**
Chair : Michael Griebel

Room : **Grouin**
Chair : Nira Dyn

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<i>Spatial Geometric Interpolation</i> | 14:30 | H.-J. Bungartz*, S. Dirnstorfer
<i>Adaptive Numerical Integration Using Sparse Grids</i> | 14:30 | Jüri Lippus
<i>On Wavelet Coefficients of Functions</i> |
| 14:55 | J. Kozak, E. Žagar*
<i>Geometric Interpolation by Cubic Polynomials</i> | 14:55 | J. Garcke*, M. Griebel
<i>Classification and Regression with Sparse Grids</i> | 14:55 | F. Pitolli
<i>A New Family of Wavelets on the Interval</i> |
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<i>Lagrange Interpolation by Splines on Triangulated Quadrangulations</i> | 15:20 | M. Hegland*, O. Nielsen
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<i>A Recursive Computation of Tensor Product Hermite Spline Interpolants</i> | 15:45 | Christoph Schwab
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<i>Power Expansion of Tangent Lengths in High Accuracy Cubic Hermite Ellipse Approximation</i> | 16:10 | S. Achatz*, C. Zenger
<i>Higher Order Sparse Grid Methods for Elliptic Partial Differential Equations with Variable Coefficients</i> | 16:10 | Bin Han
<i>Symmetry Properties in a Subdivision Scheme</i> |
| 16:35 | John M. Sullivan
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<i>Geometrical and Numerical Analysis of Comprehensive Grid Generators</i> | | |

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Peter Schröder

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Chair : Tor Dokken

Room : Grand Bé
Chair : Zuowei Shen

Room : Grouin
Chair : Malcolm Sabin

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| 10:25 | Abedallah Rababah
Jacobi-Bernstein Basis Transformation | 10:25 | Thierry Blu* , Michael Unser ,
Philippe Thévenaz
Optimizing Basis Functions For Best Approximation | 10:25 | M. Bozzini* , L. Lenarduzzi ,
R. Schaback
Adaptive Bivariate Interpolation by Multi-quadrics Perturbed in Scale and Shape |
| 10:50 | Marshall Walker
CAGD Approximation and Interpolation in 2-Manifolds | 10:50 | A. Cohen* , B. Matei
Edge-Adapted Nonlinear Multiresolution Representations | 10:50 | D.P. Jenkinson* , J.C. Mason
Approximation with Transformed Radial Basis Functions |
| 11:15 | T. Ju , F. Losasso , S. Schaefer , J. Warren*
Dual Contouring of Hermite Data | 11:15 | A. Cohen , W. Dahmen* , R. DeVore
Adaptive Wavelet Methods for Nonlinear Problems | 11:15 | B. Bacchelli* , M. Bozzini , C. Rabut
A Multiresolution Analysis using Polynomial Splines |
| 11:40 | Byung-Gook Lee* , Yunbeom Park ,
Jaechil Yoo
Legendre-Bernstein Basis Transformations and their Applications | 11:40 | Amos Ron* , Zuowei Shen
Generalized Shift-Invariant Spaces | 11:40 | G. Allasia
A Scattered Data Approximation Scheme for the Multidimensional Poisson Equation by Cardinal Radial Basis Interpolants |
| 12:05 | J. M. Carnicer* , M. Gasca
On Chung and Yao's Geometric Characterization for Bivariate Polynomial Interpolation | 12:05 | Olga Holtz* , Amos Ron
Beyond the Classical Theory of Approximation Orders | | |

Monday Afternoon

14:30–15:30 Plenary Session

Room : Grand Bé

Chair : Klaus Höllig

Constrained Fitting for Multiple Surfaces
Tamás Várady*, Pál Benkő

15:30–17:00 Coffee Break and Plenary Poster Session
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Room : Fréhel

Chair : Pascal Massart

17:00 Michael S. Floater
Mean Value Coordinates

17:25 Valérie Pham-Trong
Convex Combination Maps over Triangulations, Tilings, and Tetrahedralizations

17:50 Géza Kós*, Tamás Várady
Parametrising Complex Triangular Meshes

18:15 William Martin*, Elaine Cohen
Surface Completion of an Irregular Boundary Curve Using a Concentric Mapping

18:40 Bruno Lévy*, Sylvain Petitjean
Least Squares Conformal Maps

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Chair : François Sillion

17:00 Michael M. Stark*, Elaine Cohen,
Tom Lyche, Richard F. Riesenfeld
Multi-Resolution Splines for Rendering

17:25 L. Kobbelt
Efficient High Quality Rendering of Point Sampled Geometry

17:50 C. Gotsman
Efficient Rendering of Progressive Polygonal Meshes

18:15 Xavier Decoret, François Sillion*
Extreme Simplification using Multiple Billboards

Room : Grouin

Chair : Gerlind Plonka

17:00 Joachim Stöckler
On the Construction of Tight Affine Frames on Bounded Intervals

17:25 Peter G. Binev
Adaptive Tree Approximation for Progressive Compression of Surfaces

17:50 V. Maxim
Denoising Signals Observed on a Random Design

18:15 D. Castaño Díez*, A. Kunoth
Adaptive Data Fitting Based on Wavelets

18:40 M. Randrianarivony*, G. Brunnett
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Monday Afternoon

15:30-17:00

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- A. Agathos**
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- G. Allègre*, B. Lacolle**
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- Paolo Costantini, Isabella Cravero*, Carla Manni**
Constrained Interpolation by Frenet Frame Continuous Quintics
- Maxim Fradkin*, Jean-Michel Rouet**
Fast Logical Operations on 2-Simplex Meshes
- E. Guérin*, E. Tosan, A. Baskurt**
Flexible Approximation of Rough Surfaces with a Fractal Model
- C. Guerrini*, L.B. Montefusco**
A Wavelet Method for fMRI Data Reconstruction
- M. Hoffmann*, I. Juhász**
Application of Knot Modification in Cubic B-spline Design
- H. Wang, J. Kearney*, K. Atkinson**
Robust and Efficient Computation of the Closest Point on a Spline
- A. Averbuch, Y. Keller***
Image Registration Using Parametric Surfaces and Pixel Diffusion
- Ulf Labsik*, Günther Greiner**
Using Cubic Interpolation for the Extraction of Isosurfaces from Tetrahedral Grids
- Lin-Tian Luh**
Sobolev Spaces and Native Spaces
- Jean-Louis Maltret*, Marc Daniel**
Local Analysis of Polyhedral Surfaces
- Laura Gori, Laura Pezza***
Wavelets Bases on the Interval and Applications
- Eva Paola Rechy Muñoz**
Reconstruction and Animation of Surfaces
- H. Render**
Polysplines – A New Method in CAGD
- Ioannis Ivrissimtzis, Christian Rössl*, Hans-Peter Seidel**
Recursive Connectivity Encoding for Mesh Stripification
- Chang Shu*, Gerhard Roth**
Constructing B-spline Surfaces from Multiple Images
- Salvatore Spinello*, Günther Greiner**
Automatic Contour Line Recognition From Scanned Topographic Maps
- Luiz Velho*, Adailson Peixoto**
Multiresolution Mesh Generation using Combined Simplification/Refinement

Tuesday Morning

8:30-9:30 Plenary Session

Room : Grand Bé

Chair : Helmut Pottmann

Minkowski Geometric Algebra of Complex Sets
Rida T. Farouki

9:30-10:00 Coffee Break

Room : Fréhel

Room : Grand Bé

Room : Grouin

Chair : Ulrich Reif

Chair : Vladimir Temlyakov

Chair : David Levin

10:00 G. Albrecht

Conic Sections within CAD Systems

10:00

S.J. Dilworth, N.J. Kalton,

D. Kutzarova, V.N. Temlyakov*

The Thresholding Greedy Algorithm, Greedy Bases, and Duality

10:00

Angela Kunoth

Solving Linear-Quadratic Elliptic Control Problems by Wavelet Techniques

10:25 J. M. Carnicer, E. Mainar*, J. M. Peña

A Unified Framework for Cubics and Cycloids

10:25

Gérard Kerkycharian*,

Dominique Picard

Geometric Properties of Bases and Statistical Estimation Problems

10:25

Richard H. Bartels,

Faramarz F. Samavati*

Constructing Multiresolutions from Subdivisions : Local Techniques Using Masks

10:50

G. Casciola, S. Morigi*

Inverse Spherical Surfaces with Applications to Geometric Modelling

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Stability in Periodic Multi-Wavelet Decomposition and Non-Linear Compression/Recovery

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Fast Penetration Depth Computation Using Dual-Space Expansion, Hierarchical Refinement and Rasterization Hardware

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Rick Beatson, Jeremy Levesley*, Will Light

Fast Evaluation of Radial Basis Functions on the Sphere

11:15

A. Kamont*, V.N. Temlyakov

Greedy Approximation and Multivariate Haar System

11:15

G. Morin

Computation for Curved Objects Using Subdivision

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R. Gribonval*, M. Nielsen

Approximation with Spline Generated Framelets

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T. Deschamps*, L.D. Cohen, S.M. Ebeid

Fast Surface and Tree Structure Extraction of Vascular Objects in 3D Medical Images

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Facundo Mémoli, Guillermo Sapiro*

Distance Functions and Geodesics on Implicit and Unorganized Points Hypersurfaces

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Catalina Ibañez

Quaternion Wavelets and Medical Imaging

Tuesday Afternoon

14:30-15:30 Plenary Session

Room : Grand Bé

Chair : Amos Ron

A Link between Statistics and Approximation Theory
Pascal Massart

15:30-17:00 Coffee Break and Plenary Poster Session
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Room : Fréhel

Chair : Panagiotis Kaklis

17:00 **Jörg Peters**
Enclosures of Curved Geometry and their Applications

17:25 **Alon Spira*, Ron Kimmel**
Geodesic Curvature Flow on Parametric Surfaces

17:50 **G. Casciola, F. Fabbri, L.B. Montefusco***
Exploiting Matrix Structure in Curve Intersection Problems

18:15 **P. Chenin*, M. Khachan**
Discrete Geometrical Tools for CAGD Problems

18:40 **Éric Guilbert*, Éric Saux, Marc Daniel**
A Hierarchical Structure for Locating Intersections in Large Sets of B-spline Curves

Room : Grand Bé

Chair : Leif Kobbelt

17:00 **Charles Loop**
Smooth Trinary Subdivision of Triangle Meshes

17:25 **M. Rumpf**
A Geometric Evolution Perspective for Subdivision and Surface Modeling

17:50 **G. Morin, J. Warren*, H. Weimer**
A Subdivision Scheme for Surfaces of Revolution

18:15 **D. Zorin**
Solving Boundary Integral Equations on Subdivision Surfaces

Room : Grouin

Chair : Elaine Cohen

17:00 **P. Costantini, F. Pelosi***
Constrained Bivariate Histosplines

17:25 **P. Costantini, M. L. Sampoli***
A General Scheme for Constrained Curve Interpolation

17:50 **L. Schiavon**
Interpolation Problems Using Conic Splines With Monotone Curvature.

18:15 **S. Kersey**
Near-Interpolation with Arbitrary Constraints

18:40 **Xie-Hua Sun**
On Cubic Algebraic Curve Interpolation with Geometric Constraints

Tuesday Afternoon

15:30-17:00

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- V.I. Berdyshev**
On Extremal Problems of Navigation and Approximation of Surfaces
- T. Chaperon**
Surface Fitting Validation Using Regression Analysis
- C. Conti*, R. Morandi, C. Rabut**
Univariate Monotone Smoothing of Noisy Discontinuous Data
- N.A. Dodgson*, I.P. Ivriissimtzis, M.A. Sabin**
Characteristics of Dual $\sqrt{3}$ Subdivision Schemes
- C. G erot*, D. Attali, A. Montanvert**
From a Triangular Mesh to Surfaces Blended by Means of a Convex Combination
- A. Ardeshir Goshtaby**
Control-Line Curves
- M.F. Hasan*, N.A. Dodgson**
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- P. Sablonni ere, M. J. Ib a nez*, D. Barrera**
Near-best Spline Quasi-Interpolants on Uniform and Nonuniform Partitions in One and Two Dimensions
- Edward Kansa*, Leevan Ling**
Block Toeplitz Matrices and their Applications to Radial Basis Function Problems
- Masanori Kimura*, Fujio Yamaguchi**
Homogeneous Newton-Raphson Methods for Complex Roots
- A. Kivinukk*, G. Tamberg**
Approximation by Generalized Sampling Series
- Zhenquan Li*, Gordon Mallinson**
The Stream Surface in Flow Visualization Based on Space Curve Theory
- X. Li*, R. J. Cripps**
Estimation of Curvatures from 3D Scattered Point Data
- Ioana M. Martin**
Interactive Modeling with Multiresolution Subdivision Surfaces
- O. Nouisser*, D. Sbibih, P. Sablonni ere**
Pairs of B-splines with Small Support on the Four Directional Mesh Generating a Partition of Unity
- Giulio Casciola, Lucia Romani***
Rational Interpolants with Tension Parameters
- L. Desbat, S. Roux*, P. Grangeat, A. Koenig**
Efficient Sampling in Dynamic Tomography
- Sergey F. Svinyin*, Andrey V. Skourikhin, Nadezhda A. Andreeva**
Spectral Method of Curves Nodes Distribution with B-splines Interpolation
- Zong Min Wu**
A Meshless Method for the Numerical Solution of PDEs by using Quasi-interpolation for Scattered Data

Wednesday Morning

Room : Fréhel
Chair : Knut Mørken

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<i>Meshing for the Computational Science Pipeline: Modeling, Simulation, and Visualization</i> | 8:30 | Adi Levin
<i>Construction of Non-Uniform Stationary Subdivision Schemes</i> |
| 8:55 | J. Levesley, C. Odell, D. L. Ragozin*
<i>Variational Interpolation on Compact Homogeneous Manifolds: the Norming Set Approach</i> | 8:55 | M. Rumpf
<i>Adaptive Grid Methods for Image Defined Domains</i> | 8:55 | Adi Levin, David Levin*
<i>Smoothness Analysis of Quasi-Uniform Subdivision Schemes</i> |
| 9:20 | S. Dekel, D. Leviatan*
<i>On the Relations between Piecewise Polynomial and Rational Approximation in $L^p(\mathbb{R}^2)$</i> | 9:20 | R. Grosso
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| 10:10 | Karol Dziedziul
<i>Cardinal Interpolation</i> | 10:10 | Daniel Lemire
<i>A Family of 4-Points Dyadic High Resolution Subdivision Schemes</i> | 10:10 | Daniel Lemire
<i>A Family of 4-Points Dyadic High Resolution Subdivision Schemes</i> |

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11:00-12:00 Plenary Session

Room : Grand Bé

Chair : Joachim Stöckler

Sparse Geometrical Image Representations with Bandelets
Erwan Le Pennec, Stéphane Mallat*

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Fabbri F. : Tuesday, 17:50
Farouki Rida T. : Tuesday, 8:30

Farouki Rida T. : Thursday, 12:00
 Fasshauer Greg : Thursday, 17:40
 Feng X. C. : Friday, 15:30
 Feraudi F. : Thursday, 16:50
 Fiorot Jean-Charles : Thursday, 10:45
 Floater Michael S. : Monday, 17:00
 Floater Michael S. : Thursday, 16:00
 De Floriani L. : Thursday, 12:00
 Foucher Françoise : Friday, 15:30
 Frackin Maxim : Monday, 15:30
 Frey Pascal J. : Thursday, 11:10
 Gahleitner J. : Saturday, 11:15
 Gannaz F. : Friday, 10:50
 Garcke J. : Saturday, 14:55
 Gasca M. : Monday, 12:05
 George Paul-Louis : Saturday, 8:30
 Gérot C. : Tuesday, 15:30
 Gibaru Olivier : Thursday, 10:45
 Giesen Joachim : Friday, 17:00
 Ginnis A.I. : Saturday, 14:30
 Goldenthal R. : Friday, 15:30
 Goldman Ronald N. : Friday, 11:15
 Gómez Neri Aram : Friday, 15:30
 Gonska H. : Monday, 10:00
 Gonzalez-Vega Laureano : Friday, 15:30
 Goosen K. : Friday, 11:40
 Goosen K. : Wednesday, 9:45
 Gori Laura : Monday, 15:30
 Gortler S. : Friday, 11:40
 Goshtaby A. Ardeshir : Tuesday, 15:30
 Gotsman C. : Monday, 17:50
 Gotsman Craig : Friday, 10:00
 Gout C. : Friday, 15:30
 Grandine Thomas A. : Saturday, 10:25
 Grangeat P. : Tuesday, 15:30
 Gravesen J. : Wednesday, 9:45
 Greiner G. : Wednesday, 9:45
 Greiner Günther : Monday, 15:30
 Greiner Günther : Monday, 15:30
 Gribonval R. : Tuesday, 11:40
 Griebel M. : Saturday, 14:55
 Grosso R. : Wednesday, 9:20
 Gu X. : Friday, 11:40
 Guérin E. : Monday, 15:30
 Guerrini C. : Monday, 15:30
 Guibault F. : Friday, 15:30
 Guibault F. : Saturday, 12:05
 Guilbert Éric : Tuesday, 18:40
 Ha Nguyen Dong : Friday, 10:25
 Haase G. : Saturday, 10:50
 Hagen Hans : Friday, 18:15
 Hamann Bernd : Thursday, 16:50
 Han Bin : Saturday, 16:10
 Hassan M.F. : Tuesday, 15:30
 Hegland M. : Saturday, 15:20
 Herbst B. : Friday, 11:40
 Herbst Ben : Thursday, 17:15
 Ho C.H. : Friday, 15:30
 Hoffmann M. : Monday, 15:30
 Hogan Thomas A. : Saturday, 10:25
 Höllig K. : Thursday, 10:45
 Holtz Olga : Monday, 12:05
 Hoppe H. : Friday, 11:40
 Hormann Kai : Friday, 11:15
 Hörner J. : Thursday, 10:45
 Ibañez Catalina : Tuesday, 12:05
 Ibañez M. J. : Tuesday, 15:30
 Inselberg Alfred : Friday, 11:40
 Iske Armin : Friday, 15:30
 Iske Armin : Thursday, 16:00
 Ivrisimtzis I.P. : Friday, 15:30
 Ivrisimtzis I.P. : Tuesday, 15:30
 Ivrisimtzis Ioannis : Monday, 15:30
 Izhakiyan Zur : Friday, 11:40
 Jenkinson D.P. : Monday, 10:50
 Jenkinson D.P. : Thursday, 17:15
 Johnson C. : Wednesday, 8:30
 Johnson Michael J. : Thursday, 16:25
 Joy Kenneth I. : Thursday, 16:50
 Ju T. : Monday, 11:15
 Juhász I. : Monday, 15:30
 Jüttler B. : Friday, 15:30
 Jüttler B. : Saturday, 11:15
 Kaklis P.D. : Saturday, 14:30
 Kalton N.J. : Tuesday, 10:00
 Kamont A. : Tuesday, 11:15
 Kansa Edward : Tuesday, 15:30
 Karčiauskas K. : Friday, 17:00
 Kearney J. : Friday, 12:05
 Kearney J. : Monday, 15:30
 Keller Y. : Monday, 15:30
 Kendall S.C. : Thursday, 17:15
 Kerkyacharian Gérard : Tuesday, 10:25
 Kersey S. : Tuesday, 18:15
 Khachan M. : Friday, 15:30
 Khachan M. : Saturday, 12:05
 Khachan M. : Tuesday, 18:15
 Kimmel R. : Friday, 8:30
 Kimmel Ron : Tuesday, 17:25
 Kimura Masanori : Tuesday, 15:30
 Kivinukk A. : Tuesday, 15:30
 Kobbelt L. : Monday, 17:25
 Koenig A. : Tuesday, 15:30
 Kopf A. : Thursday, 10:45
 Kós Géza : Monday, 17:50
 Kozak J. : Saturday, 14:55
 Kunoth A. : Monday, 18:15
 Kunoth Angela : Tuesday, 10:00
 Kutzarova D. : Tuesday, 10:00
 Kvasov B. : Thursday, 17:40
 Labbé P. : Saturday, 12:05

Labsik Ulf : Monday, 15:30
 Lacolle B. : Friday, 10:50
 Lacolle B. : Monday, 15:30
 Laffon E. : Friday, 15:30
 Lamby Ph. : Friday, 17:50
 Langer U. : Saturday, 10:50
 Le Pennec Erwan : Wednesday, 11:00
 Lee Byung-Gook : Monday, 11:40
 Lee M. : Thursday, 12:00
 Lei D. : Thursday, 11:35
 Lemire Daniel : Wednesday, 10:10
 Lenarduzzi L. : Monday, 10:25
 Leopoldseder Stefan : Thursday, 11:10
 Levesley J. : Wednesday, 8:55
 Levesley Jeremy : Tuesday, 11:15
 Leviatan D. : Wednesday, 9:20
 Levin Adi : Wednesday, 8:30
 Levin Adi : Wednesday, 8:55
 Levin David : Friday, 10:25
 Levin David : Wednesday, 8:55
 Lévy Bruno : Monday, 18:40
 Li X. : Tuesday, 15:30
 Li Xin : Friday, 15:30
 Li Zhenquan : Tuesday, 15:30
 Lieutier André : Friday, 10:00
 Light Will : Thursday, 14:30
 Light Will : Tuesday, 11:15
 Lin Ming C. : Tuesday, 10:50
 Lindner E. : Saturday, 10:50
 Ling Leevan : Tuesday, 15:30
 Lippus Jüri : Saturday, 14:30
 Liseikin Vladimir D. : Saturday, 16:35
 Loop Charles : Tuesday, 17:00
 Lorange Andreas : Saturday, 10:00
 Losasso F. : Monday, 11:15
 Luh Lin-Tian : Monday, 15:30
 Luzon M. : Thursday, 16:25
 Lyche Tom : Monday, 17:00
 Mainar E. : Tuesday, 10:25
 Mallat S. : Monday, 10:00
 Mallat Stéphane : Wednesday, 11:00
 Mallinson Gordon : Tuesday, 15:30
 Maltret Jean-Louis : Monday, 15:30
 Mann Stephen : Friday, 18:40
 Manni Carla : Monday, 15:30
 Manni Carla : Thursday, 12:00
 Manni Carla : Thursday, 16:00
 Manocha Dinesh : Friday, 18:40
 Martin Ioana M. : Tuesday, 15:30
 Martin William : Monday, 18:15
 Mason J.C. : Monday, 10:50
 Mason J.C. : Thursday, 11:35
 Mason J.C. : Thursday, 17:15
 Massart Pascal : Tuesday, 14:30
 Matei B. : Monday, 10:50
 Maxim V. : Monday, 17:50
 Mazroui A. : Friday, 15:30
 Mazroui A. : Saturday, 15:45
 Meignen S. : Friday, 15:30
 Mémoli Facundo : Tuesday, 12:05
 Mhaskar H. N. : Friday, 18:40
 Michel V. : Tuesday, 11:40
 Montanvert A. : Tuesday, 15:30
 Montefusco L.B. : Monday, 15:30
 Montefusco L.B. : Tuesday, 17:50
 Morandi R. : Tuesday, 15:30
 Morigi S. : Tuesday, 10:50
 Morin G. : Tuesday, 11:15
 Morin G. : Tuesday, 17:50
 Mørken Knut : Saturday, 10:00
 Morton Tanya M. : Thursday, 11:10
 Morvan J.-M. : Friday, 17:50
 Morvan J.-M. : Saturday, 10:50
 Mourrain B. : Friday, 15:30
 Mourrain B. : Friday, 17:25
 Mühlhuber W. : Saturday, 10:50
 Mühlthaler Heidrun : Thursday, 11:35
 Müller S. : Friday, 17:50
 Narcowich Francis J. : Thursday, 16:50
 Necula Ioana : Friday, 15:30
 Nielsen M. : Tuesday, 11:40
 Nielsen O. : Saturday, 15:20
 Nouisser O. : Tuesday, 15:30
 Nürnberger Günther : Saturday, 10:25
 Odell C. : Wednesday, 8:55
 Oswald P. : Wednesday, 9:20
 Park Yunbeom : Monday, 11:40
 Pavlov E. : Thursday, 16:25
 Peixoto Adelailson : Monday, 15:30
 Pelosi F. : Tuesday, 17:00
 Peña J. M. : Tuesday, 10:25
 Perrier V. : Friday, 15:30
 Peternell M. : Saturday, 11:15
 Peters J. : Friday, 17:00
 Peters Jörg : Tuesday, 17:00
 Petitjean Sylvain : Monday, 18:40
 Petukhov A. : Saturday, 11:15
 Pezza Laura : Monday, 15:30
 Pham-Trong Valérie : Monday, 17:25
 Picard Dominique : Tuesday, 10:25
 Pitolli F. : Saturday, 14:55
 Plonka Gerlind : Saturday, 15:45
 Porumbescu Serban D. : Thursday, 16:50
 Pottmann Helmut : Thursday, 10:45
 Pottmann Helmut : Thursday, 11:10
 Pottmann Helmut : Thursday, 11:35
 Powell M.J.D. : Thursday, 16:00
 Puig-Pey Jaime : Friday, 15:30
 Quak E. : Saturday, 10:50
 Rababah Abedallah : Monday, 10:25
 Rabut C. : Monday, 11:15

Rabut C. : Tuesday, 15:30
 Ragozin D. L. : Wednesday, 8:55
 Randrianarivony M. : Monday, 18:40
 Ravani B. : Saturday, 12:05
 Rechy Muñoz Eva Paola : Monday, 15:30
 Reif Ulrich : Wednesday, 8:30
 Render H. : Monday, 15:30
 Riesenfeld Richard F. : Monday, 17:00
 Rogina Mladen : Thursday, 16:25
 Romani Lucia : Tuesday, 15:30
 Ron Amos : Monday, 11:40
 Ron Amos : Monday, 12:05
 Rössl Christian : Monday, 15:30
 Roth Gerhard : Monday, 15:30
 Rouet Jean-Michel : Monday, 15:30
 Roux S. : Tuesday, 15:30
 Rumpf M. : Tuesday, 17:25
 Rumpf M. : Wednesday, 8:55
 Sabin M. : Saturday, 10:00
 Sabin M.A. : Tuesday, 15:30
 Sablonnière P. : Tuesday, 15:30
 Sablonnière P. : Tuesday, 15:30
 Sablonnière Paul : Friday, 10:50
 Sablonnière Paul : Friday, 15:30
 Saff E. B. : Friday, 14:30
 Samavati Faramarz F. : Tuesday, 10:25
 Sampoli M. L. : Tuesday, 17:25
 Sapiro Guillermo : Tuesday, 12:05
 Sarraga Ramon F. : Saturday, 10:00
 Sauer T. : Saturday, 10:25
 Saux Éric : Tuesday, 18:40
 Sbibih D. : Friday, 15:30
 Sbibih D. : Saturday, 15:45
 Sbibih D. : Tuesday, 15:30
 Schaback R. : Monday, 10:25
 Schaefer S. : Monday, 11:15
 Schiavon L. : Tuesday, 17:50
 Schicho J. : Friday, 15:30
 Schicho J. : Saturday, 11:15
 Schröder Peter : Friday, 10:00
 Schröder Peter : Monday, 8:30
 Schwab Christoph : Saturday, 15:45
 Seidel H.-P. : Friday, 15:30
 Seidel Hans-Peter : Monday, 15:30
 Sestini Alessandra : Thursday, 12:00
 Shalaby M. : Friday, 15:30
 Sheffer A. : Saturday, 11:40
 Shen Zuowei : Monday, 11:40
 Shu Chang : Monday, 15:30
 Sillion François : Monday, 18:15
 Simoens Jo : Friday, 10:25
 Skourikhin Andrey V. : Tuesday, 15:30
 Skytt V. : Thursday, 11:35
 Slotine J.-J. : Monday, 10:00
 Spinello Salvatore : Monday, 15:30
 Spira Alon : Tuesday, 17:25
 Stark Michael M. : Monday, 17:00
 Steidl G. : Saturday, 15:20
 Stöckler Joachim : Monday, 17:00
 Stodden Victoria : Friday, 10:25
 de Sturler Eric : Friday, 16:35
 Sullivan John M. : Saturday, 18:40
 Sun Xie-Hua : Tuesday, 18:40
 Svinin Sergey F. : Tuesday, 15:30
 Tamberg G. : Tuesday, 15:30
 Tang Yuan Y. : Friday, 15:30
 Temlyakov V.N. : Tuesday, 10:00
 Temlyakov V.N. : Tuesday, 11:15
 Teschke G. : Saturday, 15:20
 Thévenaz Philippe : Monday, 10:25
 Tijini A. : Friday, 15:30
 Tijini A. : Saturday, 15:45
 Tosan E. : Monday, 15:30
 Traversoni Leonardo : Thursday, 17:40
 Unser Michael : Monday, 10:25
 Vanraes E. : Friday, 15:30
 Várady Tamás : Monday, 14:30
 Várady Tamás : Monday, 17:50
 Vassilatos G.D. : Saturday, 14:30
 Vegter Gert : Friday, 18:15
 Velho Luiz : Monday, 15:30
 Venter Chris : Thursday, 17:15
 Vershinin Y.A. : Friday, 15:30
 Villard Julien : Thursday, 12:00
 de Villiers J. : Friday, 11:40
 de Villiers J. : Wednesday, 9:45
 Wahl S. : Saturday, 11:40
 Walker Marshall : Monday, 10:50
 Wang H. : Friday, 12:05
 Wang H. : Monday, 15:30
 Ward Joseph D. : Thursday, 16:50
 Warren J. : Monday, 11:15
 Warren J. : Tuesday, 17:50
 Weimer H. : Tuesday, 17:50
 Wendland Holger : Thursday, 16:50
 Werther T. : Friday, 17:50
 Winkler Joab R. : Friday, 11:15
 Wu Zong Min : Tuesday, 15:30
 Yamaguchi Fujio : Tuesday, 15:30
 Yoo Jaechil : Monday, 11:40
 Yoon Jungho : Friday, 17:25
 Yu Thomas P.-Y. : Saturday, 11:40
 Yvinec M. : Friday, 15:30
 Žagar E. : Saturday, 14:55
 Zeilfelder Frank : Saturday, 15:20
 Zenger C. : Saturday, 16:10
 Zheludev Valery A. : Friday, 12:05
 Zimmermann G. : Friday, 11:15
 Zorin D. : Tuesday, 18:15