Monday, September 22

09:00–09:30  Welcome and Opening
Prof. Dr. Ursula Gather, Rektorin TU Dortmund
Prof. Dr. Lorenz Schwachhöfer, Prodekan Fakultät für Mathematik

1st Morning Session:

09:30–10:30  Larry L. Schumaker
Dimension of Spline Spaces on T-Meshes

10:30–11:00  Coffee break

2nd Morning Session:

11:00–12:00  Ulrich Reif
Spline Approximation on Domains

12:00–12:30  Oleg Davydov
Error Bounds for a Two-stage Method of Scattered Data Fitting with Extended Splines

12:30  Lunch

Afternoon Session: H. Michael Möller

15:30–16:00  Marat Ramazanov
The Cubature Formulas of S. L. Sobolev: The Evolution of the Theory and Applications

16:00–16:30  Michail Noskov
Cubature Formulas exact for the Haar Polynomials

16:30–16:50  Coffee break

16:50–17:20  Ronald Cools
Recent Advances on Constructing Lattice Rules for Multidimensional Integration

17:20–17:50  Kerstin Hesse
Numerical Integration over Spherical Caps

18:00  Dinner
Tuesday, September 23

1st Morning Session:

09:00–10:00    Johan Suykens  
Primal and Dual Model Representations in Kernel-Based Learning

10:00–10:30    Ding-Xuan Zhou  
An Approximation Theory Problem from Learning Theory

10:30–11:00    Coffee break

2nd Morning Session:

11:00–12:00    Elena Berdysheva  
Multivariate Bernstein Polynomials and Bernstein-Durrmeyer Operators

12:00–12:30    Paul Sablonnière  
$C^2$-cubic Spline Quasi-Interpolants on Powell-Sabin Uniform Triangulations

12:30          Lunch

1st Afternoon Session:

14:30–15:30    Poster Session

2nd Afternoon Session:

15:30–16:30    Costanza Conti  
$C^1$ Subdivision Scheme Refining Nets of Curves

16:30–16:50    Coffee break

16:50–17:20    Hartmut Prautzsch  
Analyzing Midpoint Subdivision

17:20–17:50    Nira Dyn  
Three Examples of Nonlinear Subdivision Schemes in Geometric Modelling

18:00          Dinner
Wednesday, September 24

1st Morning Session: Martin Buhmann

09:00–10:00 Greg Fasshauer  
*Solving Ill-Conditioned Symmetric Positive Definite Linear Systems with Riley’s Algorithm*

10:00–10:30 Wolfgang zu Castell  
*Scattered Data Reconstruction of Radon Data for Computer Tomography*

10:30–11:00 Holger Wendland  
*Divergence-free Kernel Methods for Approximating Stokes’ Problem*

11:00-11:30 **Coffee break**

2nd Morning Session:

11:30–12:00 David Levin  
*Moving Least-Squares for Highly Non-Uniform Data*

12:00–12:30 Manfred von Golitschek  
*Penalized Least Squares Approximation*

12:30  **Lunch**

14:00–18:30 Excursion

19:00  **Dinner**
Thursday, September 25

1st Morning Session:

09:00–10:00  Dany Leviatan  
*Approximation of Sobolev and other Classes by Polynomial and Ridge Functions*

10:00–10:30  András Kroó  
*Approximation by Algebraic Curves*

10:30–11:00  Coffee break

2nd Morning Session:

11:00–11:30  Gabriele Steidl  
*Best Approximation with respect to a Quotient Functional*

11:30–12:00  Tom Lyche  
*Divided Differences of the Inverse Function and Partitions of Convex Polygons*

12:00–12:30  Christophe Rabut  
*Consequences of Using an Arbitrary Constant in Polyharmonic Spline Expressions*

12:30  Lunch

Afternoon Session:

15:30–16:30  Hakop Hakopian  
*On Pascal and Cayley-Bacharach Theorems*

16:30–16:50  Coffee break

16:50–17:20  Carl de Boor  
*Multivariate Polynomial Interpolation: Chung-Yao, Aitken-Neville and Generalized Principal Lattices*

17:20–17:50  Georg Zimmermann  
*A New Proof of the Gasca-Maeztu Conjecture for n = 4*

18:00  Dinner
Friday, September 26

1st Morning Session:

09:00–10:00  Hrushikesh Mhaskar  
*Function Approximation on Data Defined Manifolds*

10:00–10:30  Peter Binev  
*Near-best Approximation in High Dimensions*

10:30–11:00  **Coffee break**

2nd Morning Session: Joachim Stöckler

11:00–11:30  Joseph Ward  
*Surface Divergence-Free RBF Interpolants on Spheres*

11:30–12:00  Yuri Demy’anovich  
*Wavelet Decompositions for Data on Differentiable Manifolds*

12:00–12:30  Maria Charina-Kehrein  
*Tight Frames and Semi-definite Programming*

12:30  **Lunch**