

# CONFERENCE SCHEDULE

## Wednesday, July 5

9 <sup>00</sup> -9 <sup>30</sup>	OPENING CEREMONY
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### Plenary Lectures

	<i>Chairman:</i> H.H. GONSKA
9 <sup>30</sup> -10 <sup>15</sup>	<b>Francesco ALTOMARE</b> Continuous selections of Borel measures and positive approximation processes
10 <sup>20</sup> -11 <sup>05</sup>	<b>Gradimir V. MILOVANOVIĆ*</b> , <b>Aleksandar S. CVETKOVIĆ</b> Gaussian quadratures based on operator values
11 <sup>10</sup> -11 <sup>40</sup>	COFFEE BREAK

The symbol "\*" designates the author giving the talk.

## Section Talks

<b>Section A</b>	
<i>Chairman: P. VERTESI</i>	
11 <sup>40</sup> -12 <sup>00</sup>	<b>Antonio Attalienti</b> Shape-preserving properties of the semigroup generated by the Black-Scholes operator
12 <sup>00</sup> -12 <sup>20</sup>	<b>Maren Schmalmack</b> Uniform convergence of functions constructed by means of convolution semigroups
12 <sup>20</sup> -12 <sup>40</sup>	<b>Elena Berdysheva</b> On the kernel of the Baskakov-Durrmeyer operator
12 <sup>40</sup> -13 <sup>00</sup>	<b>Sorin Gal</b> Uniform approximation by bivariate polynomials preserving convexity
13 <sup>00</sup> -15 <sup>00</sup>	LUNCH BREAK

<b>Section B</b>	
<i>Chairman: G. MASTROIANNI</i>	
$11^{40}$ - $12^{00}$	<b>Ulrich Abel, Mircea Ivan*</b> The complete asymptotic expansion for the natural quasi-interpolants of the Bernstein-Durrmeyer operators
$12^{00}$ - $12^{20}$	<b>Alexandra Ciupa</b> On the approximation by an integral type operator in polynomial weighted space
$12^{20}$ - $12^{40}$	<b>Frank Filbir, Woula Themistoclakis*</b> On the construction of generalized de la Vallée Poussin operators
$12^{40}$ - $13^{00}$	<b>Andrei Vernescu</b> On the constructing of approximation operators using the umbral calculus
$13^{00}$ - $15^{00}$	LUNCH BREAK

## Plenary Lecture

<i>Chairman: I. RAŞA</i>	
$15^{00}$ - $15^{45}$	<b>Bohdan MASLOWSKI</b> Partial differential equations perturbed by a fractional noise
$15^{45}$ - $16^{00}$	BREAK

## Section Talks

<b>Section A</b>	
<i>Chairman: I. RAŞA</i>	
16 <sup>00</sup> -16 <sup>20</sup>	<b>Jan Pospisil</b> Numerical parameter estimates in stochastic equations with fractional Brownian motion
16 <sup>20</sup> -16 <sup>40</sup>	<b>David Julitz</b> Approximation of random attractors and random invariant manifolds with subdivision algorithm
16 <sup>40</sup> -17 <sup>00</sup>	<b>Ioana Chiorean</b> Parallel LU method for solving Black-Scholes equation
17 <sup>00</sup> -17 <sup>20</sup>	<b>Alin Roşca</b> A multidimensional stock market model
17 <sup>20</sup> -17 <sup>40</sup>	<b>Diana Filip*, H. Lisei, R. Lung</b> The influence of currency devaluation on the commutation numbers

<b>Section B</b>	
<i>Chairman: I. GAVREA</i>	
$16^{00}-16^{20}$	<b>V. Devigne, C.J. van Duijn, T.L. van Noorden, Sorin Pop*</b> Simulation of dissolution and precipitation processes at the pore scale
$16^{20}-16^{40}$	<b>Z. Jackiewicz, Barbara Zubik-Kowal*</b> Nonlinear integral operators in thalamo-cortical problems
$16^{40}-17^{00}$	<b>Maria Crăciun</b> Classification and properties of some compound operators of D.D. Stancu type
$17^{00}-17^{20}$	<b>David Benko</b> The iterated balayage algorithm
$17^{20}-17^{40}$	<b>Terhemem Aboiyar</b> High order finite volume methods for scalar conservation laws using thin plate spline reconstruction

# Thursday, July 6

## Plenary Lectures

	<i>Chairman: F. ALTOMARE</i>
9 <sup>00</sup> -9 <sup>45</sup>	<b>Jozsef SZABADOS</b> Multivariate approximation by homogeneous polynomials
9 <sup>50</sup> -10 <sup>35</sup>	<b>George A. ANASTASSIOU</b> Fuzzy random Korovkin theory and inequalities
10 <sup>40</sup> -11 <sup>10</sup>	COFFEE BREAK

## Section Talks

	<b>Section A</b>
	<i>Chairman: G. ANASTASSIOU</i>
11 <sup>10</sup> -11 <sup>30</sup>	<b>Ioan Gavrea</b> The reminder in Gauss quadrature formulas
11 <sup>30</sup> -11 <sup>50</sup>	<b>Vasile Miheşan</b> A method for summability of degenerate hypergeometric function
11 <sup>50</sup> -12 <sup>10</sup>	<b>Alexandru Mitrea</b> Error estimation and unbounded divergence in numerical differentiation
12 <sup>10</sup> -12 <sup>30</sup>	<b>Mihail Bărbosu*, B. El Mabsout</b> Lagrange's triangular configuration for the three-body problem: computation and analysis of the curvature tensor
12 <sup>30</sup> -12 <sup>50</sup>	<b>Hüseyin Yüce*, C. Yi Wang</b> Analytical methods for the vibration of clamped plates
13 <sup>00</sup> -15 <sup>00</sup>	LUNCH BREAK

<b>Section B</b>	
<i>Chairman: M. CAMPITI</i>	
$11^{10}-11^{30}$	<b>O. Atlihan, Cihan Orhan*</b> Matrix summability and positive linear operators
$11^{30}-11^{50}$	<b>Ogün Dođru</b> On statistical approximation properties of Stancu type bivariate generalization of $q$ -Balázs-Szabados operators
$11^{50}-12^{10}$	<b>Radu Păltănea</b> Estimates of approximation by positive linear operators using adapted moduli to a Chebyshev system
$12^{10}-12^{30}$	<b>G. Milovanović, Aleksandar Cvetković*</b> Numerical integration of complex Jacobi weighted integrals
$12^{30}-12^{50}$	<b>Timofey Rodionov</b> On frame expansions
$13^{00}-15^{00}$	LUNCH BREAK

## Plenary Lecture

	<i>Chairman: A. ATTALIENTI</i>
15 <sup>00</sup> -15 <sup>45</sup>	<b>Giuseppe MASTROIANNI</b> Weighted polynomial approximation on $[0, +\infty)$ : polynomial inequalities, best approximation and embedding theorems
15 <sup>45</sup> -16 <sup>00</sup>	BREAK

## Section Talks

	<b>Section A</b>
	<i>Chairman: A. ATTALIENTI</i>
16 <sup>00</sup> -16 <sup>20</sup>	<b>A. Albanese, Michele Campiti*, E. Mangino</b> Approximation of the resolvent operator of a $C_0$ -semigroups and applications
16 <sup>20</sup> -16 <sup>40</sup>	<b>Ioan Raşa</b> Total Positivity: an application to positive linear operators and to their limiting semigroups
16 <sup>40</sup> -17 <sup>00</sup>	<b>Michele Campiti, Ioan Raşa, Cristian Tacelli*</b> Steklov operators and their associated semigroups
17 <sup>00</sup> -17 <sup>20</sup>	<b>Francesco Altomare, Vita Leonessa*</b> Continuous selections of Borel measures, positive operators and degenerate evolution problems
17 <sup>20</sup> -17 <sup>40</sup>	<b>Francesco Altomare, Sabina Milella*</b> Integral-type operators on weighted spaces of continuous functions and evolution semigroups on the real line



	<b>Section B</b>
	<i>Chairman: M. IVAN</i>
$16^{00}-16^{20}$	<b>Maria Mihoc</b> Some functional equations involved in nomography
$16^{20}-16^{40}$	<b>Ion Mihoc*, Cristina Fătu</b> Some implications of the orthogonal principle in the statistical estimation
$16^{40}-17^{00}$	<b>Ilie Mitran</b> On some numeric methods of solving minmax problems
$17^{00}-17^{20}$	<b>Gabriel Prăjitură</b> Non commutative approximation: the case of linear chaos
$17^{20}-17^{40}$	<b>Cătălin Mitran</b> On some numerical applications of the finite element methods

# Friday, July 7

## Plenary Lectures

<i>Chairman: J. SZABADOS</i>	
9 <sup>00</sup> -9 <sup>45</sup>	<b>Heiner GONSKA</b> Approximation in $C^r[a, b]$ by positive linear operators
9 <sup>50</sup> -10 <sup>35</sup>	<b>Péter VÉRTESI</b> Results on interpolation of Hungarian mathematicians in the twentieth century
10 <sup>40</sup> -11 <sup>10</sup>	BREAK

## Section Talks

<b>Section A</b>	
<i>Chairman: G. MILOVANOVIĆ</i>	
11 <sup>10</sup> -11 <sup>30</sup>	<b>Iuliana Iatan</b> The pseudo-code algorithm used for the cubic spline interpolation
11 <sup>30</sup> -11 <sup>50</sup>	<b>Virginia Niculescu</b> Efficient algorithms for Hermite interpolation
11 <sup>50</sup> -12 <sup>10</sup>	<b>Gabriela Trîmbițaș, Radu Trîmbițaș*</b> Adaptive cubatures and spatial data structures
12 <sup>10</sup> -12 <sup>30</sup>	<b>Voichița Cleciu</b> Approximation properties of a class of operators of Bernstein-Stancu type
12 <sup>30</sup> -12 <sup>50</sup>	<b>Linsen Xie</b> Pointwise simultaneous approximation by combinations of Bernstein operators
13 <sup>00</sup> -15 <sup>00</sup>	LUNCH BREAK

<b>Section B</b>	
<i>Chairman:</i> B. MASLOWSKI	
11 <sup>10</sup> -11 <sup>30</sup>	<b>Ioan Golet</b> Approximation theorems for functions with values in probabilistic normed spaces
11 <sup>30</sup> -11 <sup>50</sup>	<b>Romeo Negrea</b> A numerical method for backward stochastic differential equations
11 <sup>50</sup> -12 <sup>10</sup>	<b>Hannelore Lisei, Iuliana Marchiş*</b> Numerical simulations for some stochastic partial differential equations of parabolic type
12 <sup>10</sup> -12 <sup>30</sup>	<b>Bogdan Iftimie*, Constantin Vârsan</b> Asymptotic behaviour of piecewise continuous processes associated with elliptic equations and applications in finance
12 <sup>30</sup> -12 <sup>50</sup>	<b>Anna Soos</b> Numerical solution of some homogenization problems
13 <sup>00</sup> -15 <sup>00</sup>	LUNCH BREAK

## Section Talks

<b>Section A</b>	
<i>Chairman: S. GAL</i>	
15 <sup>00</sup> -15 <sup>20</sup>	<b>Alexandra Oprisan</b> Composed methods for nonlinear equations
15 <sup>20</sup> -15 <sup>40</sup>	<b>Diana Otrocol</b> Data dependence of the fixed points set for a Lotka-Volterra system
15 <sup>40</sup> -16 <sup>00</sup>	<b>Carmen Muraru</b> On a class of bivariate operators
16 <sup>00</sup> -16 <sup>20</sup>	<b>Magnolia Tilca</b> Upon an extensive set of knots for the normalized B-spline functions
16 <sup>20</sup> -16 <sup>40</sup>	<b>Ana Măierean</b> Application of the WEB-method for the mathematical model of artherogenesis as an inflammatory response

19<sup>00</sup> CONFERENCE DINNER

<b>Section B</b>	
<i>Chairman: H. YÜCE</i>	
$15^{00}-15^{20}$	<b>H. Gonska, D. Kacso, Paula Pişul*</b> On rational B-spline functions
$15^{20}-15^{40}$	<b>Rodica Sobolu</b> Statistical approximation by positive linear operators involving a certain class of generating functions
$15^{40}-16^{00}$	<b>Marius Birou</b> Some bivariate interpolation schemes of Hermite type with triangular and rectangular nodes
$16^{00}-16^{20}$	<b>Abedallah Rababah</b> Degree reduction of Bézier surfaces
$16^{20}-16^{40}$	<b>Samir Sallam</b> High order spline collocation methods for solving parabolic differential equations

19<sup>00</sup> CONFERENCE DINNER