





Program of Eighth China-Russia Conference

# Numerical Algebra with Applications

June 24-27, 2019

I.I. Vorovich Institute of Mathematics, Mechanics, and Computer Science Southern Federal University Rostov-on-Don, Russia

### June 24 (Monday)

#### Registration

#### June 25 (Tuesday)

09:30-10:00	Registration	
10:00-10:10	Opening Ceremony	
Chairperso		
	Zhong-Zhi Bai	
	Academy of Mathematics and Systems Science,	
	Chinese Academy of Sciences. , Beijing,	
10:10-10:35	P.R. China	
10.10 10.55	COMPUTING EIGENPAIRS OF HERMITIAN	
	MATRICES IN PERFECT KRYLOV	
	SUBSPACES	
	Bai ZZ., Miao CQ.	
	Mikhail I. Karyakin	
	Southern Federal University, Rostov-on-Don,	
	Russia	
10:35-11:00	EQUILIBRIUM AND STABILITY OF THE	
	INHOMOGENEOUS NONLINEARLY	
	ELASTIC BODIES	
	Karyakin M., Obrezkov L., Pustovalova O.	
	Guo-Yan Meng	
	Xinzhou Teachers University, Xinzhou, P.R. China	
11:00-11:25	THE GENERALIZED HSS METHOD WITH A	
	FLEXIBLE SHIFT-PARAMETER	
	Meng GY., Wen RP.	
	Konstantin A. Nadolin	
	Southern Federal University, Rostov-on-Don,	
11:25-11:50	Russia	
	COMPUTATIONAL EXPERIMENTS BASED	
	ON REDUCED MODEL OF A LONG AND	
	SHALLOW STREAM	
	Nadolin K.A., Zhilyaev I.V.	
	Zeng-Qi Wang	
11:50-12:15	Shanghai Jiao Tong University, Shanghai, P.R.	
	China	

CONTROL OPTIMIZATION PROBLEMS Wang ZQ., Cao SM.   12:15-13:30 Lunch   Chairperson Zhong-Zhi Bai   Galina V. Muratova Southern Federal University, Rostov-on-Don, Russia Mult TiGRID METHOD FOR BIOLOGICAL AND MEDICAL PROBLEMS Muratova G.V., Bavin V.V.   Dan-Fu Han Hangzhou Normal University, Hangzhou, P.R. China A P-VERSION TWO LEVEL SPLINE METHOD FOR 2D NAVIER-STOKES EQUATIONS   Mohamed E. Nassar Southern Federal University, Menouf, Egypt NUMERICAL STUDY OF EFFECTIVE MODULES OF POROUS PIEZOCOMPOSITES WITH METALLIZED INTERFACES IN UNIT CELL WITH CUBIC OR SPHERICAL PORES Nasedkin A.V., Nassar M.E.   14:45-15:10 Xiang Zhang Department of Mathematics Science, Guizhou Normal University, P.R. China ON THE QUADRATIC EQUATIONS AND MATRIX FUNCTION   15:10-15:35 Yacheslav G. Tsybulin Southern Federal University, Rostov-on-Don, Russia			
Wang ZQ., Cao SM.12:15-13:30LunchChairpersonZhong-Zhi BaiGalina V. Muratova Southern Federal University, Rostov-on-Don, Russia MULTIGRID METHOD FOR BIOLOGICAL AND MEDICAL PROBLEMS Muratova G.V., Bavin V.V.13:30-13:55Dan-Fu Han Hangzhou Normal University, Hangzhou, P.R. China A P-VERSION TWO LEVEL SPLINE METHOD FOR 2D NAVIER-STOKES EQUATIONS14:20-14:45Mohamed E. Nassar Southern Federal University, Menouf, Egypt NUMERICAL STUDY OF EFFECTIVE MODULES OF POROUS PIEZOCOMPOSITES WITH METALLIZED INTERFACES IN UNIT CELL WITH CUBIC OR SPHERICAL PORES Nasedkin A.V., Nassar M.E.14:45-15:10Xiang Zhang Department of Mathematics Science, Guizhou Normal University, P.R. China ON THE QUADRATIC EQUATIONS AND MATRIX FUNCTION15:10-15:35Kussia		PMHSS PRECONDITIONERS FOR STOKES	
12:15-13:30 Lunch   Chairperson Zhong-Zhi Bai   Galina V. Muratova Southern Federal University, Rostov-on-Don, Russia   13:30-13:55 Galina V. Muratova   MULTIGRID METHOD FOR BIOLOGICAL AND MEDICAL PROBLEMS   Muratova G.V., Bavin V.V.   Dan-Fu Han   Hangzhou Normal University, Hangzhou, P.R. China   A P-VERSION TWO LEVEL SPLINE METHOD FOR 2D NAVIER-STOKES EQUATIONS   Mohamed E. Nassar   Southern Federal University, Rostov-on-Don, Russia, Menoufia University, Rostov-on-Don, Russia, Menoufia University, Menouf, Egypt   14:20-14:45   14:20-14:45   14:45-15:10   Normal University, P.R. China   0N THE QUADRATIC EQUATIONS AND MATRIX FUNCTION   Vyacheslav G. Tsybulin Southern Federal University, Rostov-on-Don, Russia			
ChairpersonZhong-Zhi BaiGalina V. Muratova Southern Federal University, Rostov-on-Don, Russia MULTIGRID METHOD FOR BIOLOGICAL AND MEDICAL PROBLEMS Muratova G.V., Bavin V.V.13:30-13:5513:55-14:2013:55-14:2014:20-14:4514:20-14:4514:45-15:1014:45-15:1014:45-15:1015:10.15:3515:10.15:3515:10.15:3515:10.15:3515:10.15:3515:10.15:3515:10.15:3515:10.15:3515:10.15:3515:10.15:3515:10.15:3515:10.15:3515:10.15:3515:10.15:3515:10.15:3515:10.15:35			
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Hangzhou Normal University, Hangzhou, P.R. China A P-VERSION TWO LEVEL SPLINE METHOD FOR 2D NAVIER-STOKES EQUATIONSMohamed E. Nassar Southern Federal University, Rostov-on-Don, Russia, Menoufia University, Menouf, Egypt NUMERICAL STUDY OF EFFECTIVE MODULES OF POROUS PIEZOCOMPOSITES WITH METALLIZED INTERFACES IN UNIT CELL WITH CUBIC OR SPHERICAL PORES Nasedkin A.V., Nassar M.E.14:45-15:10Xiang Zhang Department of Mathematics Science, Guizhou Normal University, P.R. China ON THE QUADRATIC EQUATIONS AND MATRIX FUNCTION15:10-15:35Vyacheslav G. Tsybulin Southern Federal University, Rostov-on-Don, Russia		Muratova G.V., Bavin V.V.	
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14:45-15:10Xiang Zhang Department of Mathematics Science, Guizhou Normal University, P.R. China ON THE QUADRATIC EQUATIONS AND MATRIX FUNCTIONVyacheslav G. Tsybulin Southern Federal University, Rostov-on-Don, Russia		CELL WITH CUBIC OR SPHERICAL PORES	
14:45-15:10Department of Mathematics Science, Guizhou Normal University, P.R. China ON THE QUADRATIC EQUATIONS AND MATRIX FUNCTIONVyacheslav G. Tsybulin Southern Federal University, Rostov-on-Don, Russia		Nasedkin A.V., Nassar M.E.	
14:45-15:10 Normal University, P.R. China   ON THE QUADRATIC EQUATIONS AND   MATRIX FUNCTION   Vyacheslav G. Tsybulin   Southern Federal University, Rostov-on-Don,   Russia		Xiang Zhang	
14:45-15:10 Normal University, P.R. China   ON THE QUADRATIC EQUATIONS AND   MATRIX FUNCTION   Vyacheslav G. Tsybulin   Southern Federal University, Rostov-on-Don,   Russia		Department of Mathematics Science, Guizhou	
ON THE QUADRATIC EQUATIONS AND MATRIX FUNCTION Vyacheslav G. Tsybulin Southern Federal University, Rostov-on-Don, Russia	14:45-15:10	1 0	
MATRIX FUNCTION Vyacheslav G. Tsybulin Southern Federal University, Rostov-on-Don, Russia			
Southern Federal University, Rostov-on-Don, Russia			
Southern Federal University, Rostov-on-Don, Russia		Vyacheslav G. Tsybulin	
$(5 \cdot 10 - 15 \cdot 35)$	15:10-15:35		
13:10-13:33   gov up on the hold of the second seco		Russia	
CONVECTION IN A POROUS MEDIUM:		CONVECTION IN A POROUS MEDIUM:	
COSYMMETRY AND ITS CONSERVATION		COSYMMETRY AND ITS CONSERVATION	
THROUGH A FINITE-DIFFERENCE		THROUGH A FINITE-DIFFERENCE	

	APPROXIMATION	
15:35-15:55	APPROXIMATION   Tatyana S. Martynova   Southern Federal University, Rostov-on-Don,   Russia   POSITIVE DEFINITENESS AND M-MATRIX   CONDITIONS OF A CONVECTION-   DIFFUSION DIFFERENCE OPERATOR WITH   BOUNDARY CONDITIONS OF THE THIRD   KIND	
	Chikina L.G., Shabas I.N., Martynova T.S.	
15:55-16:15	Coffee Break	
Chairperso	n Tatyana S. Martynova	
16:15-16:30	Svetlana V. Revina Southern Federal University, Rostov-on-Don, Russia THE REGION OF TURING INSTABILITY IN SCHNAKENBERG SYSTEM Lysenko S.A., Revina S.V.	
16:30-16:45	Nikita E. Krymov National Research University Moscow Power Engineering Institute, Moscow, Russia ASYMPTOTIC APPROXIMATIONS FOR ONE RADIATIVE-CONDUCTIVE HEAT TRANSFER PROBLEM Amosov A.A., Krymov N.E.	
16:45-17:00	Michael E. Abramyan Southern Federal University, Rostov-on-Don, Russia ABOUT SOME FEATURES OF THE HEURISTIC IMPLEMENTATION OF BRANCH AND BOUND METHOD FOR THE PROBLEM OF NFA MINIMIZATION Abramyan M. E., Melnikov B.F.	
17:00-17:15	Lubov G. Chikina Southern Federal University, Rostov-on-Don, Russia	

THE SECOND ORDER DIFFERENCE	
	SCHEME OF THE 3D CONVECTION-
	DIFFUSION PROBLEM WITH THE ROBIN'S
	BOUNDARY CONDITIONS
	Chikina L.G., Shabas I.N., Chikin A.L.
17:15-17:30	Litovchenko D.E.
	Southern Federal University, Rostov-on-Don,
	Russia
	ABOUT SOME NEW APPROACHES TO TEXT
	SENTIMENT ANALYSIS AND TOXICITY
	ANALYSIS USING DEEP LEARNING
	METHODS
	Abramyan M.E., Litovchenko D.E.

### June26 (Wednesday)

Chairperson Z		Zeng-Qi Wang
	Sergey I. Garmashov	
	Southern Federal University	v, Rostov-on-Don,
	Russia	
10 00 10 05	COMPUTER SIMULATIO	N OF MIGRATION
10:00-10:25	OF LIQUID CYLINDRICA	L INCLUSIONS IN
	A CRYSTAL IN SOME CA	SES OF
	INTERFACIAL ENERGY A	ANISOTROPY
	Garmashov S.I., Karpenko A	l. <i>S</i> .
	Hao Liu	
	Nanjing University of Aeron	autics and
	Astronautics, Nanjing, P.R.	
10.25.10.50	MINIMUM NORM PARTIA	
10:25-10:50	EIGENVALUE ASSIGNMI	ENTFOR
	VIBRATING STRUCTURE	ES USING
	RECEPTANCE METHOD	
	Liu H., He BX., Chen XP.	
	Vasiliy N. Govorukhin	
	Southern Federal University	, Rostov-on-Don,
10 50 11 15	Russia	
10:50-11:15	NUMERICAL ANALYSIS	OF COSYMMETRY
	VIOLATION IN FILTRATI	ION CONVECTION
	PROBLEM	
	Rui-Ping Wen	
	Taiyuan Normal University,	Taiyuan, P.R. China
11:15-11:40	A THREE-TERM ACCELE	RATED
	<b>TECHNIQUE FOR HSS-TY</b>	PE METHODS
	Wen RP., Jiang W.	
11:40-12:00	Coffee Break	
Chairperson	Vasiliy N. Govorukhin	
10.00.10.15	Olga A. Pichugina	
12:00-12:15	Southern Federal University	r, Rostov-on-Don,

	Russia	
	NUMERICAL STUDY OF THE SKEW-	
	SYMMETRIC PRECONDITIONERS	
	Xi Yang	
	Nanjing University of Aeronautics and	
12:15-12:40	Astronautics, Nanjing, P.R. China	
12.10 12.10	A FAST NULLSPACE METHOD BASED ON	
	MATRIX EXPONENTIAL FOR THE	
	UNSTEADY STOKES EQUATIONS	
	Dmitriy V. Dzama	
	Nuclear Safety Institute, Russian Academy of	
	Science, Moscow, Russia	
	PHYSICAL AND MATHEMATICAL	
	MULTIFUNCTIONAL MODELS,	
	SPECIALIZED NUMERICAL ALGORITHMS	
12: 40-12:55	AND SOFTWARE FOR MODELING	
121 10 12:00	PROPAGATION OF CONTAMINATION,	
	TAKING INTO ACCOUNT THREE-	
	DIMENSIONAL URBAN OR INDUSTRIAL	
	BUILDING	
	Dzama D.V., Sorokovilova O.S., Asfandiyarov	
	D.a.ma D.v., Sorokovilova O.S., Asjanaiyarov D.G.	
10 55 14 20		
12:55-14:30	Lunch	
	Poster Session	
	Chubatov A.A., Karmazin V.N.	
	Armavir State Pedagogical Academy, Armavir,	
	Russia	
	A REGULARIZATION METHOD ON THE	
1	BASE AUGMENTED SYSTEM FOR	
	IDENTIFICATION PROBLEM FOR	
	INTENSITY OF ATMOSPHERIC POLLUTION	
	SOURCE	
2	Andreeva E.M., Muratova G.V.	
	Southern Federal University, Rostov-on-Don,	
	Russia	
	FOURIER ANALYSIS OF MULTIGRID	
	FOURIER ANALYSIS OF MULTIGRID	

	METHOD WITH HSS METHODS AS SMOOTHERS
3	Abramyan M.E. Southern Federal University, Rostov-on-Don, Russia BIPARTITE GRAPHS IN THE PROBLEM OF NFA MINIMIZATION AND ALGORITHMS FOR CALCULATING THEIR NUMBER
4	<b>Kirichenko O.V., Revina S.V</b> INVESTIGATION OF THE STABILITY OF TWO-DIMENSIONAL FLOWS CLOSE TO THE SHEAR.

#### June27 (Thursday)

#### **Excursion to Azov**

#### June28 (Friday)

## Trip to Taganrog. Participation in the meeting of the SFU Academic Council

#### June29 (Saturday)

Departure