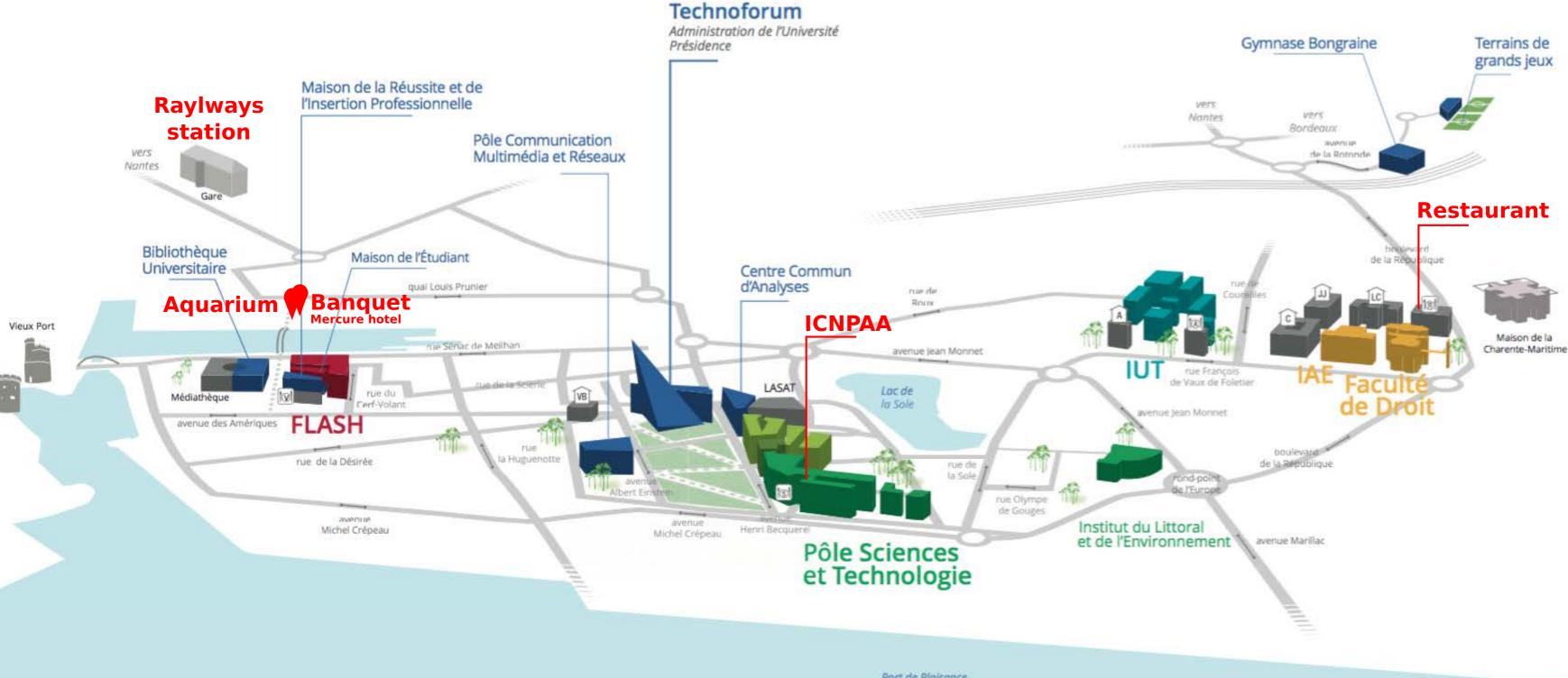


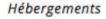
World Congress: 11th International Conference on

Mathematical Problems in Engineering, Aerospace and Sciences

La Rochelle, France, July 5 - July 8, 2016



Port de Plaisance Les Minimes



Résidence Ville en Bois

A Cité Antinéa

Résidence Le Carrelet

Résidence Jean Jouzel

Résidence Coureilles

Restauration

RU République

RU Antinéa

S Cafétéria des Sciences

RU Vespucci

UFR Lettres, Langues, Arts et Sciences Humaines

UFR Sciences Fondamentales et Sciences pour l'Ingénieur

UFR Droit, Science Politique et Gestion

Institut Universitaire de Technologie



Welcome Message from the Conference General Chair

As the general chair of the conference, I am delighted to welcome you all to the ICNPAA 2016 World Congress - 11th International Conference on Mathematical Problems in Engineering, Aerospace and Sciences.

La Rochelle is on the western coast of France, in the Charente-Maritime department. La Rochelle is certainly among the most attractive port towns of France, and is a very pleasant place to visit and to pass a few days, because there is a great deal to see and do in La Rochelle. There are several 'regions' including: the harbour, with the old town and historical centre, is the centre of activity and interest within the town and contains many of the most important monuments; the three towers and the ramparts; the section around the old market; the large, modern port section a couple of kilometres south at Port des Minimes. The focus of the town is the old harbour, a lovely part of the town and very picturesque with its two monumental towers (St Nicolas Tower and the Tower of the Chain) either side of the port entrance, through which you can watch the boats enter. A third tower, the 'Tower of the Lantern' is connected to the Chain Tower by a section of the ramparts that originally defended the town. The old town, just behind the harbour, is extensive and also very well preserved and restored and dates mostly from the 17th and 18th centuries. The main shopping streets especially have many fine buildings, but you will also need to explore the side streets in this part of the town. The whole of the historic centre of La Rochelle has an impressive unified appearance, with arcaded streets, houses constructed in the local light stone, and light grey shutters. Boutiques now occupy the ground floor of many of the buildings.

The 10th ICNPAA Conference was held in Narvik, Norway in 2014, and shattered the attendance records of all the previous conferences. This year, in La Rochelle, France, despite the current worldwide economic constraints, and the security concerns around the world, we have an even larger number of attendees/delegates and there were many more that wanted to attend but could not due to lack of funding.

We have an outstanding program with several keynote addresses, general sessions, and special sessions on areas including: Mini-Symposia: New Methods and Applications in Aero elasticity and Structural Mechanics/Dynamics; Modelling, Simulation and Optimization in Engineering; Functional Analysis and Related Topics with Applications; Modern approximation methodologies for functions and arrays in science and engineering computations; Control of nonlinear systems under deterministic and stochastic loads; New Methods and Applications in Aeroelasticity and Structural Mechanics/Dynamics; Modelling, Simulation and Optimization in Engineering. Tutorial sessions: The Beauty of Simple Adaptive Control and Old and New results in Stability Analysis of Nonlinear Systems; Multivariate Function Decomposition and Data Analysis with a Basic Focus on HDMR and EMPR. Special sessions: Modern approximation methodologies for functions and arrays in science and engineering computations; Analysis of Fractional Differential, Integral and Difference equations with Applications; Nonlinear Problems of Guidance, Navigation and Control; Inverse Problems: Theory and Application to Science and Engineering; Control and Estimation: Theory and

Applications; Statistics and Modeling; Soliton Theory and Integrability in Mathematical Physics; The Beauty of Simple Adaptive Control and Old and New results in Stability Analysis of Nonlinear Systems; Inverse Problems: Theory and Application to Science and Engineering; Control of nonlinear systems under deterministic and stochastic loads; Integral Equations and Their Applications in Science and Technology; Mathematical Problems in Combustion and Fire Science; Applications on fractional operators to real world problems; Engineering Mathematics: wavelets, fractals, networks and matrices in computational electromagnetics, antennas, fluid dynamics and biomathematics; New Methods and Applications in Aeroelasticity and Structural Mechanics/Dynamics; Mathematical modeling, numerical algorithms and aerospace techniques; Delay Differential Equations Models in Life Sciences, Engineering and Economics; Nonlinear Engineering Problems with Singularities; Stochastic Processes and Fields in Engineering; Nonlinear analysis, optimal design and guidance of space systems with low thrust; Statistics and Modeling; Soliton Theory and Integrability in Mathematical Physics; Multivariate Function Decomposition and Data Analysis with a Basic Focus on HDMR and EMPR; Clifford algebras, Clifford analysis and their applications; Recent Integral Transforms Advances (RITA); Wavelets Analysis, Fractional Advances and Applications(WAFAA); Aspects Integres dans les Mathematiques de Abbas Bahri- a Loving Eulogy II. (AIMABLE II).

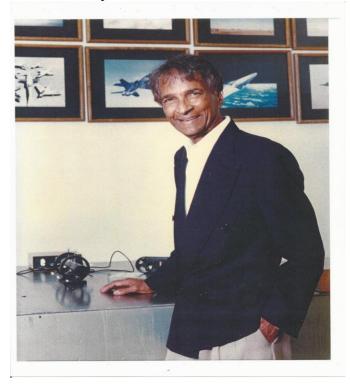
I would like to thank the international advisory committee and the international organizing committee, the international awards committee, the local advisory and local organizing committee, the sponsors AIAA: American Institute of Aeronautics and Astronautics; IFNA: International Federation of Nonlinear Analysts; IFIP: International Federation of Information Processing; AIP: American Institute of Physics; ULR: University of La Rochelle; AFM: Association Française de Mécanique; ALPC: Aquitaine-Limousin-Poitou-Charente region; CMD: Charente-Maritime department; LaSIE: Laboratoire des Sciences de l'Ingénieur pour l'Environnement for their assistance and support in the preparation of the conference. I also wish to express my special thanks to all who have helped in planning, organizing and chairing the sessions to make this conference a very successful event.

Finally, I would especially like to thank the local organizers Dina Razafindralandy (University of La Rochelle, France), Svetlin Georgiev (Sorbonne University, France), the conference coordinator Eva Kaslik (West University of Timisoara, Romania), the co-coordinators Iren Siva and Dianthe Siva and the administrative chair Jose Ruiz for their tireless efforts to make this a successful conference. Special thanks go also to the local advisory team and organizing team of the conference for their diligent contributions to make this event a successful one.

I hope that you all enjoy the conference and the natural beauty of the city, have an exciting scholarly cooperation, collaboration, interaction, and have a pleasant stay in La Rochelle, France.

Seenith Sivasundaram ICNPAA General Chair

Honoring the memory of Professor Dr. A.V. Balakrishnan



Professor Dr. A.V. Balakrishnan

Professor A.V. Balakrishnan was born on December 4, 1922 in Palgat, India. He earned his M. S. Degree in Electrical Engineering and his Ph.D. in Mathematics from the University of Southern California in 1950 and 1954, respectively. From cinema to aerodynamics, he never imagined he would wind up in aerodynamics. Bal grew up in Chennai (Madras), India. He earned his B.Sc. and an M.A. from the University of Madras in the early 1940s and won a scholarship competition from the Indian government to study in the United States and learn to produce documentaries. He mentioned in his own words: "The problem was that the job they had waiting for me at the Indian Institute of Science just didn't measure up to the opportunities I knew I would have with a Ph.D. in the U.S. So I stayed." After earning his Ph.D. in 1954, he went to the East Coast and worked in radar at The Radio Corporation of America (RCA) for two years. He also mentioned, "That was a hotbed of activity at the time, but I didn't want to stay in Camden because it was known only for Campbells soup, he laughed. Instead, I joined the wagon going west, like so many other engineers did."

Professor Balakrishnan's contributions to applied mathematics, control theory and aerodynamics spanned several diverse areas: From his revolutionary and highly influential Ph.D. dissertation on fractional powers of operators, written under mathematical giant Ralph S. Phillips in 1954 at the USC; to his contributions in both deterministic and stochastic control and communication; to his ingenious Springer-Verlag book on Applied Functional Analysis of 1976 and the second edition of 1981, written with a focus on stability theory, optimal control theory and stochastic optimization for systems defined by operator semigroups, one of his favorite topics; all the way to the last phase of his research activities in continuum aero-elasticity. Starting in 1961,

Professor A.V. Balakrishnan's academic activities evolved mostly at the University of California Los Angeles (UCLA) as Professor of Engineering since 1962 and as Professor of Mathematics since 1965. During 1969-1975 and 1980-1983 he was Chairman of the Department of Systems Science in the School of Engineering, and from 1986 until he passed away he was Director of the NASA-UCLA Flight Systems Research Center.

Of gentle and well-disposed personality, ready to help junior faculty and students, he had a very unique maverick approach to science and life in general, while keeping a strong sense of independence of mind, spirit and action. Indeed, during the severe stages of the cold war, he was able to maintain scientific contacts with the former Soviet Union by inviting Soviet mathematicians such as Leon S. Pontryagin and others to visit UCLA. With Leon S. Pontryagin, Jacques-Louis Lions and Gurii I. Marchuk, he funded the Springer-Verlag journal Applied Mathematics and Optimization and gave birth to IFIP's TC7 Committee on Modeling and Optimization which was spearheaded simultaneously in Rome (Jacques-Louis Lions and A.V. Balakrishnan) and Moscow (Gurii I. Marchuk and Leon S. Pontryagin) in 1963.

Professor Balakrishnan was chairman of the IEEE's Information Theory Group and during 1970- 1980 he chaired the Technical Committee on System Modeling and Optimization as U.S. Delegate, and the International Federation on Information Processing (IFIP). From 1980 until 1995 he was Chair of the Working Group 7.1 on System Modeling and Optimization at IFIP. From 1984 until he passed away he was Chairman of the IEEE Subcommittee on Large Space Structures and from 1987 he was President of the ComCon Conference Board. Professor A.V. Balakrishnan had the ability of mastering difficult engineering problems in a rigorous mathematical way and of producing effective engineering solutions. A number of his textbooks have become standard references in their field and his Department at UCLA became a leading example of school to which talented young students and researchers looked for advice and inspiration. During over sixty years of academic activities, Professor A.V. Balakrishnan lectured as invited professor at many universities and prestigious international conferences. He supervised the work of numerous Ph.D. students and post-doctoral fellows. His research contributions have been published in over two hundred scientific papers, and in over twenty one books published by prestigious publishing houses. Professor A.V. Balakrishnan made important contributions in the areas of Communication Theory, Stochastic Differential Equations, Kalman Filtering Theory, State Space Theory of Systems, Random Processes Theory in Engineering, Laser Propagation in Atmospheric Turbulence, Functional Analysis, Semigroups of Operators Theory, and other areas.

Professor A.V. Balakrishnan also lent his expertise to industry and the government, including to Optimization Software, Inc.; NADC US Navy; and to the NASA Dryden Flight Research Center. He held patents on the modes of interconnected lattice trusses using continuum models and laser beam log amplitude temporal scintillation spectrum due to crosswind. The work of Professor A.V. Balakrishnan has been a source of inspiration for generations of engineers and applied mathematicians. In more than sixty years of an outstanding scientific career, he made seminal contributions to the analysis and design of control systems. His contributions span from the theory of optimal control (where in the 60s, he developed a celebrated method the epsilon technique for the computation of optimal controls for distributed parameter systems), to filtering and identification theory, to a number of very difficult engineering applications which include the

control of aircraft under wing turbulence, the control of flexible structure in space and aero-elastic modelling of aircraft wings.

The editorial activities of Prof. A.V. Balakrishnan were impressive as well. He was the foundingeditor of three important journals: Journal of Computer and System Science (1968 at Academic Press), Journal of Applied Mathematics and Optimization (1968 at Springer-Verlag), Selecta Mathematica Sovietica (1981 at Birkhauser) and he was the editor of the following three book series: Applications of Mathematics (Springer-Verlag since 1974), Lecture Notes In Information and Control (Springer-Verlag 1976-1986), and Translations Series in Mathematics and Engineering (Optimisation Software, Inc.Publications since 1983). He served as the coeditor-in-chief of the journal Mathematics in Engineering Science and Aerospace from its very beginning.

Professor A.V. Balakrishnan's professional contributions were appreciated by the international mathematical and electrical engineering communities. He was elected an IEEE Life Fellow for contributions to communication theory. He was honored with the Silver Core Award of IFIP (1977); the Certificate of Recognition of NASA (1978) for flight-test data reduction; the Guillemin Prize (1980) in recognition of the major impact that his original contribution have had in setting the research direction of communications and control; the Group Achievement Award of NASA Langley Flight Research Center (1986) for spacecraft control laboratory experiment; the Honorary Superior Accomplishment Award of NASA Langley Research Center (1992), the Public Service Medal (1996) in recognition of exceptional continuous theoretical and administrative contributions in establishing the UCLA-NASA Flight Systems Research Center to create increased research interactions between the university community and NASA; the Richard E. Bellman Control Heritage Award (2001), an American Automatic Control Council Award, given for distinguished career contributions to the theory or application of automatic control. The award is the highest recognition of professional achievement for US Control Systems engineers and scientists; and the Distinguished Alumni Award in Academia (2004) - Viterbi School of Engineering at University of Southern California.

The impact of Professor Balakrishnan's professional contributions were and still are discernible at many universities. People who prepared for their Ph.D. in control theory in 1970-1975 took full advantage of his results obtained in this area. There are also today young colleagues who have already or will defend their Ph.D. theses, using Professor Balakrishnan's books as a primary source of inspiration. Professor Balakrishnan received the title Doctor Honoris Causa from the West University of Timis oara, Romania in June 2004.

The Science, Engineering and Aerospace community mourns an icon, a colleague, and a friend. Bal is survived by his unwaveringly supportive and beloved wife Sophia (Sonya) Balakrishnan, and five children from his first marriage.

This conference is officially dedicated to Prof. Dr. A.V. Balakrishnan for his exemplary contributions to scientific endeavor and this conference series from the very beginning.

MONDAY - JULY 4

09.00-17.00 Pre-confere	ence TUTORIAL WORKSHOPS
Room C01	Room C02
The Beauty of Simple Adaptive Control and Old and New results in Stability Analysis of Nonlinear Systems	Multivariate Function Decomposition and Data Analysis with a Basic Focus on HDMR and EMPR
Instructors: Itzhak Barkana, Haim Weiss, Ilan Rusnak	Instructors: Professor Metin Demiralp, Professor N. Abdülbaki Baykara, Süha Tuna, Zeynep Gündoğar, Ayla Okan, Derya Bodur

17.00-20.00	REGISTRATION – La Rochelle University, Orbigny building,	
20.00-21.00	WELCOME RECEPTION – La Rochelle University, Pascal building 000	

TUESDAY – July 5

9.00-9.30	OPENING CEREMONY - A400						
9.30-10.30	PLENARY TALK: Prof. Naira HOVAKYMIAN						
10.00.11.00							
10.30-11.00				coffee break			
				Parallel sessions			
Room:	A300	A400	C21	C01	C02	C24	C27
Session:	M2	M5	M4	S12	S11	Gen	
11.00-11.25	Engineering	Guidance,	Modern	Simple and	Engineering	General	
11.25-11.50	Mathematics:	Navigation and	approximation	Robust Adaptive	Problems with	Session	
11.50-12.15	wavelets	Control	methodologies	Control	Singularities		
10 17 11 00				l			
12.15-14.00				lunch break			
				Keynote talks			
Room:		A3	800	,		A400	
14.00-14.50		KEYNOTE: Prof	. Stefan BALINT		KEYNOTE:	Prof. Francesco D	ELL'ISOLA,
14.50-15.40		KEYNOTE: Prof. S	ergei SILVESTROV	1	KEYN	OTE: Prof. Marc GA	ARBEY
				Parallel sessions			
Room:	A300	A400	C21	C01	C02	C24	C27
Session:	M2	M5	M4	S12	S11	S10	
15.50-16.15	Engineering	Guidance,	Modern	Simple and	Engineering	Guidance of	
16.15-16.40	Mathematics:	Navigation and	approximation	Robust Adaptive	Problems with	Space systems	
16.40-17.05	wavelets	Control	methodologies	Control	Singularities	with low thrust	
47.05.47.00				ff -			
17.05-17.30				coffee break			
				Parallel sessions			
Room:	A300	A400	C21	C01	C02	C24	C27
Session:	M2	M5	M4	S12	S11	S10	S2
17.30-17.55	Engineering	Guidance,	Modern	Simple and	Engineering	Guidance of	Clifford Algebras
17.55-18.20	Mathematics:	Navigation and	approximation	Robust Adaptive	Problems with	Space systems	Clifford Analysis
18.20-18.45	wavelets,	Control	methodologies	Control	Singularities	with low thrust	and Applications
18.45-19.10	fractals						

WEDNESDAY - JULY 6

		Keynote talks					
Room:		A3	00	A400			
8.30-9.20		KEYNOTE: Prof.	. Milan STEHLIK		KEYNOTE: Prof. A.S. VATSALA		TSALA
9.20-10.10		KEYNOTE: Prof.	Metin DEMIRALP		KEYNO	OTE: Dr. Itzhak BAF	RKANA
10.10-10.40				coffee break			
				Parallel sessions			
Room:	A300	A400	C21	C01	C02	C24	C27
Session:	M2	M5	M4	S1	S15	S6	S11
10.40-11.05	Engineering	Guidance,	Modern	Analysis of	Stochastic	Integral	Engineering
11.05-11.30	Mathematics:	Navigation and	approximation	Fractional	Processes and	Equations and	Problems with
11.30-11.55	wavelets,	Control	methodologies	Equations with	Fields in	Applications	Singularities
11.55-12.20	fractals			Applications	Engineering		
12.20-14.00				lunch break			
				Parallel sessions			
Room:	A300	A400	C21	C01	C02	C24	C27
Session:	M2	M5	M4	S1	S14	S6	S 3
14.00-14.25	Engineering	Guidance,	Modern	Analysis of	Statistics	Integral	Control and
14.25-14.50	Mathematics:	Navigation and	approximation	Fractional	and	Equations and	Estimation
14.50-15.15	wavelets,	Control	methodologies	Equations with	Modelling	Applications	Theory
15.15-15.40	fractals, networks			Applications			and
15.40-16.05	and matrices						Applications
16.30-18.00		AQUARIUM visit					
20.00			DANGUET De	staurant Osásnidas	/Llotal Maraura		
20.00-	BANQUET - Restaurant Océanides/Hotel Mercure						

THURSDAY – July 7

	Keynote talks						
Room:		A:	300		A400		
8.40-9.30	KEYNOTE: Prof. Ruggero Maria SANTILLI				KEYN	OTE: Prof. Harry HI	LTON
9.30-10.20		KEYNOTE: Prof. J	an AWREJCEWICZ		KEYNOT	E: Prof. Gangaram S	S. LADDE
				Parallel sessions			
Room:	A300	A400	C21	C01	C02	C24	C27
Session:	M3	M6	M1	M5	S16	S18	S9
10.30-10.55	Modelling,	Mathematical	Functional	Guidance,	Modelling and	Recent	New Era
10.55-11.20	Algorithms and	Methods and	Analysis and	Navigation and	Simulation	Integral Transform	in
11.20-11.45	Aerospace	Modelling in	Related Topics	Control	in Engineering	Advances	Mathematics
11.45-12.10	Techniques	Engineering	with Applications			(RITA)	
12.10-14.00				lunch break			
				Keynote talks			
Room:			300			A400	
14.00-14.50		KEYNOTE: Dr.	Jiro NAKAMICHI		KEYN	OTE: Prof. Rudolf H	ILFER
_			1	Parallel sessions			
Room:	A300	A400	C21	C01	C02	C24	C27
Session:	M3	M6	M1	S5	S13	\$8	S9
15.00-15.25	Modelling,	Mathematical	Functional	Delay Differential	Soliton Theory	Mathematical	New Era
15.25-15.50	Algorithms and	Methods and	Analysis and	Equation Models	and Integrability	Problems in	in
15.50-16.15	Aerospace	Modelling in	Related Topics	in Life Sciences	in Mathematical	Combustion and	Mathematics
16.15-16.40	Techniques	Engineering	with Applications		Physics	Fire Science	
40.40.47.00				<i>ff</i>			
16.40-17.00				coffee break			
				Parallel sessions			
Room:	A300	A400	C21	C01	C02	C24	C27
Session:	M3	S4	M1	S5	S13	S8	S9
17.00-17.25	Modelling,	Control of	Functional	Delay Differential	Soliton Theory	Mathematical Mathematical	New Era
17.25-17.50	Algorithms and	Nonlinear	Analysis and	Equation Models	and Integrability	Problems in	in
17.50-18.15	Aerospace		Related Topics	in Life Sciences	in Mathematical	Combustion and	Mathematics
18.15-18.40	Techniques	Systems	The second secon	in Life Sciences			wathematics
11x 15_1x /III	reconiques		with Applications		Physics	Fire Science	

FRIDAY – July 8

		Keynote talks						
A400								
		KEYN01	E: Dr. Takeshi TS	UCHIYA				
		KEYNOTI	E: Dr. Toshiya NA	KAMURA				
			coffee break					
			Parallel sessions					
A300	A400	C21	C01	C02	C24	C27		
M3	M6	S2	S7	S17	S4	S9		
Modelling,	Mathematical	Clifford Algebras	Inverse	Aeroelasticity	Control of	New Era		
Algorithms and	Methods and	Clifford Analysis	Problems:	and Structural	Nonlinear	in		
Aerospace	Modelling in	and Applications	Theory and	Mechanics/	Systems	Mathematics		
Techniques	Engineering		Applications	Dynamics				
			lunch break					
			Parallel sessions					
A300	A400	C21	C01	C02	C24	C27		
M3	M6	S2	S7	S19	S4			
Modelling,	Mathematical	Clifford Algebras	Inverse	Wavelets	Control of			
Algorithms and	Methods and	Clifford Analysis	Problems:	Analysis,	Nonlinear			
Aerospace	Modelling in	and Applications	Theory and	Fractional	Systems			
Techniques	Engineering		Applications	Advances				
				and Applications				
	M3 Modelling, Algorithms and Aerospace Techniques A300 M3 Modelling, Algorithms and Aerospace	M3 M6 Modelling, Mathematical Methods and Methods and Modelling in Engineering A300 A400 M3 M6 Modelling, Mathematical Methods and Modelling in	A300 A400 C21 M3 M6 S2 Modelling, Mathematical Clifford Algebras Clifford Analysis and Applications Engineering A300 A400 C21 M3 M6 S2 Modelling in Engineering Clifford Analysis and Applications C100 C21 M3 M6 S2 Modelling, Mathematical Clifford Algebras Clifford Analysis Algorithms and Methods and Clifford Analysis Aerospace Modelling in Applications	KEYNOTE: Dr. Takeshi TS KEYNOTE: Dr. Toshiya NA coffee break Parallel sessions A300 A400 C21 C01 M3 M6 S2 S7 Modelling, Algorithms and Aerospace Modelling in Engineering Engineering A300 A400 C21 C01 M3 M6 S2 S7 Iunch break Parallel sessions A300 A400 C21 C01 M3 M6 S2 S7 Modelling, Algorithms and A400 C21 C01 M3 M6 S2 S7 Modelling, Algorithms and Aerospace Modelling in Clifford Algebras Inverse A300 A400 C21 C01 M3 M6 S2 S7 Modelling, Algorithms and Aerospace Modelling in Aerospace Modelling in Aerospace Modelling in Aerospace Modelling in Applications Theory and	REYNOTE: Dr. Takeshi TSUCHIYA KEYNOTE: Dr. Toshiya NAKAMURA Coffee break Parallel sessions A300 A400 C21 C01 C02 M3 M6 S2 S7 S17 Modelling, Algorithms and Aerospace Modelling in Engineering Mathematical Clifford Analysis Techniques Parallel sessions A300 A400 C21 C01 Mechanics/ Applications Parallel sessions Parallel sessions A300 A400 C21 C01 C02 M3 M6 S2 S7 S19 Modelling, Algorithms and Aerospace Modelling in Engineering Mathematical Clifford Algebras Inverse Wavelets Algorithms and Methods and Methods and Methods and Applications Aerospace Modelling in Engineering Modelling in Engineering Modelling in Engineering Advances	KEYNOTE: Dr. Takeshi TSUCHIYA KEYNOTE: Dr. Toshiya NAKAMURA Coffee break Parallel sessions A300		

9.00-9.30	OPENING CEREMONY - Roo	om Δ400
9.30-10.30		a HOVAKYMIAN - Cooperative Control of UAVs
		<u> </u>
40.00.44.00		aaffaa braak
10.30-11.00		coffee break
11.00-12.15		Parallel sessions
	MO. Eu vius avius Mathausati	
Room A300	antennas, fluid dynamics ar	cs: wavelets, fractals, networks and matrices in computational electromagnetics, and biomathematics
	Chair: Sergei Silvestrov	
11.00-11.25	Dmitrii Silvestrov	Asymptotic Expansions for Stationary Distributions of Perturbed Semi-Markov Processes
	Diman divector	Numerical methods and asymptotic expansions for multi-paramenter stochastic
11.25-11.50	Betuel Canhanga	differential equations modeling
11.50-12.15	Karl Lundengård	Construction of moment-matching multinomial lattices using Vandermonde matrice and Gröbner bases.
	<u> </u>	
Room A400	M5: Nonlinger Broklema of	Guidance, Navigation and Control
ROUM A400	Chair: Yevgeny Somov	Guidance, Navigation and Control
11.00-11.25	Yevgeny Somov	Guidance and adaptive-robust attitude & orbit control of a small information satellite
44.05.44.50	Olog Boodens	Application of GNSS-INS simulator for testing algorithms of the airborne vector
11.25-11.50 11.50-12.15	Oleg Bogdanov Andrey Shevchenko	gravimetry problem. Methods for Predicting Unsteady Takeoff and Landing Trajectories of the Aircraft
11100 12110	Transcript Chief Chief	mounded in the second of the s
Room C21	M4: Modern approximation Chair: Metin Demiralp	methodologies for functions and arrays in science and engineering computations
11.00-11.25	Nasır Abdülbaki Baykara	Multivariate Numerical Integration via Fluctuationlessness Theorem: Case Study
		A Space Pruning Approach to the Determination of Spectral Entities for a Quantum
11.25-11.50	Berfin Kalay	System Described by a Singular Potential
11.50-12.15	Derya Bodur	Certain Implementative Applications of Separate Node Ascending Derivatives Expansion (SNADE)
Room C01	S12: Simple and Robust Ad	antivo Control
Room Co	Chair: Itzhak Barkana	aptive Control
11.00-11.25		On the Synthesis of Nonlinear Sliding Mode Controller for the Autopilot Design of
11.25-11.50	Devika K. B. Ilan Rusnak	Free Flight System Implementation of SAC in Target Tracking Loop
11.50-12.15	Oleg Borisov	Simple Adaptive Control for Quadcopters with Saturated Actuators
Room C02	C44: Nonlinear Engineering	Droblems with Singularities
Room Cu2	Chair: Marat Dosaev	Problems with Singularities
11.00-11.25	Maria Kulikovskaya	Comparison of energy costs for different control laws of a vibratory robot
44.05.44.50	Olog Charkson	Range Maximization and Brachistochrone Problem with Dry Friction, Viscous Drag
11.25-11.50 11.50-12.15	Oleg Cherkasov Yury Selyutskiy	and Accelerating Force On auto-oscillations of a plate in flow
11100 12110	Lary Conjuncting	and detailed of a place in non
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Room C24	General Session Chair: Seenith Sivasundaram	
11.00-11.50	Ryspek Usubamatov	Mathematical Models for Principles of Gyroscope Theory
		Second Law considerations for Fourier Heat Conduction in relation to intermolecular
11.50-12.15	Christopher Jesudason	potentials
12.15-14.00		lunch break
14.00-15.40		Keynote talks
. 7.00-10.70		nojnoto uno
Room A300	Chair: Prof. Metin Demiralp	
14.00-14.50	Prof. Stefan BALINT	Space-Time Evolution of the Perturbations of a Spatially Developing Constan Gas Flow
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14.50-15.40	Prof. Sergei SILVESTROV	Engineering Mathematics for big data networks and computational electromagnetics
Room A400	Chair: Prof. Dina Razafindraland	
14.00-14.50	Prof. Francesco DELL'ISOLA	Pantographic lattice based metamaterials: Modelling, prototype experiments and possible engineering applications
14.50-15.40	Prof. Marc GARBEY	Vascular Repair & Vascular Adaptation: Challenges and Opportunities
15.50-17.05		Parallel sessions
Room A300	antennas, fluid dynamics and	wavelets, fractals, networks and matrices in computational electromagnetics, biomathematics.
15.50-16.15	Chair: Emanuel Guargilia Jonas Österberg	Power series expansion of functions involving generalized Vandermonde matrices
16.15-16.40	Karl Lundengård	Multi-Peaked Analytically Extended Function Representing Electrostatic Discharge (ESD) Currents
16.40-17.05	Sergei Silvestrov	Calculating PageRank in a changing network
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Room A400	M5: Nonlinear Problems of Gu	idance, Navigation and Control
Room A400	Chair: Yevgeny Somov	idunice, Huvigunen und Control
15.50-16.15	Sergey Somov	Attitude guidance and control of the GLONASS navigation satellites at passage of singular orbit sites
16.15-16.40	Alexander Kochetkov	Tracking problem for electromechanical system under influence of unknown unmatched perturbation
16.40-17.05	Svetlana Krasnova	Block Design of Tracking Systems under Unmatched Disturbances via Sigmoidal Feedbacks
Room C21	M4: Modern approximation me	thodologies for functions and arrays in science and engineering computations
ROOM CZ1	Chair: Metin Demiralp	thodologies for functions and arrays in science and engineering computations
15.50-16.15	Ercan Gürvit	Recovery of Missing Data via Wavelets Followed by High-Dimensional Modeling
16.15-16.40	Süha Tuna	A Numerical Comparision between Bivariate Enhanced Multivariance Products Representation and Smoothing Bicubic Spline Method
16.40-17.05	Evrim Korkmaz Özay	Face Recognition using Tridiagonal Matrix Enhanced Multivariance Products Representation (TMEMPR)
Room C01	S12: Simple and Robust Adapt	ive Control
	Chair: Itzhak Barkana	1
15.50-16.15	Stanislav Tomashevich	Passification based simple adaptive control of quadrotor attitude: algorithms and testbed results
16.15-16.40	Anton Putov	Adaptive control of an unmanned aerial vehicle
16.40-17.05	Alexander Popov	A Direct Implicit Reference Model Adaptive Control for SIMO Linear Time Invariant Systems with Super-Twisting-Like Terms
Room C02	S11: Nonlinear Engineering Pr	oblems with Singularities
4E EO 40 45	Chair: Oleg Cherkasov	Stability damains for your with viscoss filling
15.50-16.15 16.15-16.40	Marat Dosaev Roger Khayat	Stability domains for vane with viscose filling Treatment of flow singularity for exiting liquid jet from a hydrophobic channel
16.40-17.05	Malika Yaici	Helicopter Flight Control by Dynamic Compensator
Room C24	S10: Nonlinear analysis, optim Chair: Olga Starinova	al design and guidance of space systems with low thrust
15.50-16.15	Andrey Shornikov	Boundary problem solution of an optimal control transfer between circular orbits for an electric propulsion spacecraft in an irregular gravitational field of an asteroid
16.15-16.40	Irina Gorbunova	An approach for the control method's determination for an interplanetary mission with solar sail
16.40-17.05	Vadim Salmin	Optimization methods of near-Earth and interplanetary flights with low thrust
17.05-17.30		coffee break

Room A300	M2: Engineering Mathemat antennas, fluid dynamics a	tics: wavelets, fractals, networks and matrices in computational electromagnetics, and biomathematics.
110011171000	Chair: Sergei Silvestrov	
		Data Classifications with Support Vector Machines and Generalized Support Vector
17.30-17.55	Xiaomin Qi	Machine
17.55-18.20	Yeliz Karaca	Test Application for Support Vector Machines: The Estimation of Adults' Cognitive Skills through Certain Kernel Types based on WAIS-R
40.00.40.45	Lielana Maieleaunt	Identification and functional characterization of a glioma specific retroviral integration
18.20-18.45	Holger Weishaupt	landscape
Room A400	M5: Nonlinear Problems of	Guidance, Navigation and Control
	Chair: Yevgeny Somov	
17.30-17.55	Aleksander Shulepov	Arrangement of spacecraft onboard equipment with minimizing the influence of external factors
17.55-18.20	Igor Davydov	Liquid oscillations in the tanks' level sensors of aerospace objects
17.00 10.20	ige. Dailyaet	
Room C21		methodologies for functions and arrays in science and engineering computations
	Chair: Metin Demiralp	
17.30-17.55	Cosar Gozukirmizi	Classical Symmetric Fourth Degree Potential Systems In Probabilistic Evolution Theoretical Perspective: Most Facilitative Conicalization and Squarification of Telescope Matrices
17.55-18.20	Elif Tataroglu	An Implementative Application of Probabilistic Evolution Theory : A Case Study for Two Particles Celestical Mechanical System
18.20-18.45	Melike Ebru Kırkın	More Practicalization of Probabilistic Evolution Theory: Case Studies for the Squarification of Telescope Matrices
Room C01		
47.00.47.55	S12: Simple and Robust A Chair: Ilan Rusnak	
17.30-17.55	Chair: Ilan Rusnak Alexander Popov	Adaptive synchronization of robot-manipulators for tracking problem
17.55-18.20	Chair: Ilan Rusnak Alexander Popov Itzhak Barkana	Adaptive synchronization of robot-manipulators for tracking problem The new Theorem of Stability and Gain Convergence in Simple Adaptive Control
	Chair: Ilan Rusnak Alexander Popov	Adaptive synchronization of robot-manipulators for tracking problem The new Theorem of Stability and Gain Convergence in Simple Adaptive Control Quasi-Periodic Dynamics of a High Angle of Attack Aircraft
17.55-18.20	Chair: Ilan Rusnak Alexander Popov Itzhak Barkana	Adaptive synchronization of robot-manipulators for tracking problem The new Theorem of Stability and Gain Convergence in Simple Adaptive Control
17.55-18.20 18.20-18.45 18.45-19.10	Chair: Ilan Rusnak Alexander Popov Itzhak Barkana G. Rohith Hongkeun Kim	Adaptive synchronization of robot-manipulators for tracking problem The new Theorem of Stability and Gain Convergence in Simple Adaptive Control Quasi-Periodic Dynamics of a High Angle of Attack Aircraft A Dynamic Controller Guaranteeing Almost Strict Positive Realness of the Interconnected System
17.55-18.20 18.20-18.45	Chair: Ilan Rusnak Alexander Popov Itzhak Barkana G. Rohith Hongkeun Kim	Adaptive synchronization of robot-manipulators for tracking problem The new Theorem of Stability and Gain Convergence in Simple Adaptive Control Quasi-Periodic Dynamics of a High Angle of Attack Aircraft A Dynamic Controller Guaranteeing Almost Strict Positive Realness of the
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17.55-18.20 18.20-18.45 18.45-19.10 Room C02	Chair: Ilan Rusnak Alexander Popov Itzhak Barkana G. Rohith Hongkeun Kim S11: Nonlinear Engineerin Chair: Yury Selyutskiy	Adaptive synchronization of robot-manipulators for tracking problem The new Theorem of Stability and Gain Convergence in Simple Adaptive Control Quasi-Periodic Dynamics of a High Angle of Attack Aircraft A Dynamic Controller Guaranteeing Almost Strict Positive Realness of the Interconnected System
17.55-18.20 18.20-18.45 18.45-19.10 Room C02	Chair: Ilan Rusnak Alexander Popov Itzhak Barkana G. Rohith Hongkeun Kim S11: Nonlinear Engineerin Chair: Yury Selyutskiy Anastasia Lyubicheva	Adaptive synchronization of robot-manipulators for tracking problem The new Theorem of Stability and Gain Convergence in Simple Adaptive Control Quasi-Periodic Dynamics of a High Angle of Attack Aircraft A Dynamic Controller Guaranteeing Almost Strict Positive Realness of the Interconnected System Problems with Singularities Modeling of indentation into inhomogeneous soft tissues
17.55-18.20 18.20-18.45 18.45-19.10 Room C02 17.30-17.55 17.55-18.20	Chair: Ilan Rusnak Alexander Popov Itzhak Barkana G. Rohith Hongkeun Kim S11: Nonlinear Engineerin Chair: Yury Selyutskiy Anastasia Lyubicheva Vitaly Samsonov	Adaptive synchronization of robot-manipulators for tracking problem The new Theorem of Stability and Gain Convergence in Simple Adaptive Control Quasi-Periodic Dynamics of a High Angle of Attack Aircraft A Dynamic Controller Guaranteeing Almost Strict Positive Realness of the Interconnected System Problems with Singularities Modeling of indentation into inhomogeneous soft tissues Mechanical Systems with Singularities Evolution of rotational motions of a rigid body similar to pseudoregular precession in
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17.55-18.20 18.20-18.45 18.45-19.10 Room C02 17.30-17.55 17.55-18.20 18.20-18.45 Room C24	Chair: Ilan Rusnak Alexander Popov Itzhak Barkana G. Rohith Hongkeun Kim S11: Nonlinear Engineerin Chair: Yury Selyutskiy Anastasia Lyubicheva Vitaly Samsonov Dmytro D. Leshchenko S10: Nonlinear analysis, o Chair: Olga Starinova Vadim Salmin	Adaptive synchronization of robot-manipulators for tracking problem The new Theorem of Stability and Gain Convergence in Simple Adaptive Control Quasi-Periodic Dynamics of a High Angle of Attack Aircraft A Dynamic Controller Guaranteeing Almost Strict Positive Realness of the Interconnected System Modeling of indentation into inhomogeneous soft tissues Mechanical Systems with Singularities Evolution of rotational motions of a rigid body similar to pseudoregular precession in the Lagrange case ptimal design and guidance of space systems with low thrust Approximate approach for optimization space flights with a small thrust on the basis of sufficient optimality conditions
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WEDNESDAY – July 6

8.30-10.10		
		Keynote talks
Room A300	Chair: Prof. Gangaram S. Ladde	
8.30-9.20	Prof. Milan STEHLIK	Extracting Fractal and extreme aspects from series of random dynamical systems
9.20-10.10	Prof. Metin DEMIRALP	Enhanced multivariance products representation (empr) from scratch to its most recent status
9.20-10.10	1101. Weth DEWINALI	most recent status
Room A400	Chair: Prof. Luis Castro	
8.30-9.20	Prof. Aghalaya S. VATSALA	Riemann Lioville Dynamic Systems Versus Sequential Caputo dynamic Systems with Applications
9.20-10.10	Dr. Itzhak BARKANA	Can Stability Analysis be really simplified? (Revisiting Lyapunov, Barbalat, LaSalle and all that)
	_	
10.10-10.40		coffee break
10.40-12.20		Parallel sessions
10.40-12.20		Farallet sessions
Room A300	M2: Engineering Mathematics: antennas, fluid dynamics and	wavelets, fractals, networks and matrices in computational electromagnetics, biomathematics.
Room Aooo	Chair: Emanuel Guariglia	
10.40-11.05	Emanuel Guariglia	Fractional derivative of the Zeta Functions and Functional Equations
11.05-11.30	Sergei Silvestrov	Iterated function systems, wavelets, fixed points, fractal attractors and commutative and non-commutative families of operators
11.30-11.55	Jawali Channabasappa Umavathi	Double diffusive convection in a Porous Medium Layer Saturated with an Oldroyd Nanofluid
11.55-12.20	Mahesha Narayana	Thermocapillary flow of a non-Newtonian nanoliquid film over an unsteady stretching sheet
Room A400		idance, Navigation and Control
Room A400 10.40-11.05	Chair: Yevgeny Somov	idance, Navigation and Control A VLF-based technique for analysis and synthesis of nonlinear digital control systems and its applications
	Chair: Yevgeny Somov Sergey Ulyanov	A VLF-based technique for analysis and synthesis of nonlinear digital control
10.40-11.05	Chair: Yevgeny Somov	A VLF-based technique for analysis and synthesis of nonlinear digital control systems and its applications Automation of Multi-Agent Control for Complex Dynamic Systems in Heterogeneous
10.40-11.05 11.05-11.30	Chair: Yevgeny Somov Sergey Ulyanov Gennady Oparin	A VLF-based technique for analysis and synthesis of nonlinear digital control systems and its applications Automation of Multi-Agent Control for Complex Dynamic Systems in Heterogeneous Computational Network On the problem of discrete-event systems properties preservation
10.40-11.05 11.05-11.30 11.30-11.55	Chair: Yevgeny Somov Sergey Ulyanov Gennady Oparin Nadezhda Nagul	A VLF-based technique for analysis and synthesis of nonlinear digital control systems and its applications Automation of Multi-Agent Control for Complex Dynamic Systems in Heterogeneous Computational Network On the problem of discrete-event systems properties preservation
10.40-11.05 11.05-11.30 11.30-11.55	Chair: Yevgeny Somov Sergey Ulyanov Gennady Oparin Nadezhda Nagul Roman Khabibullin M4: Modern approximation me	A VLF-based technique for analysis and synthesis of nonlinear digital control systems and its applications Automation of Multi-Agent Control for Complex Dynamic Systems in Heterogeneous Computational Network On the problem of discrete-event systems properties preservation
10.40-11.05 11.05-11.30 11.30-11.55 11.55-12.20	Chair: Yevgeny Somov Sergey Ulyanov Gennady Oparin Nadezhda Nagul Roman Khabibullin M4: Modern approximation me Chair: Metin Demiralp	A VLF-based technique for analysis and synthesis of nonlinear digital control systems and its applications Automation of Multi-Agent Control for Complex Dynamic Systems in Heterogeneous Computational Network On the problem of discrete-event systems properties preservation Nonlinear Modeling and Study for Control of the Research Spacecraft with Solar Sail ethodologies for functions and arrays in science and engineering computations Overflow Removal from the Images of an Infinite Linear Combination Over a Basis Function Set Under the Quantum System Hamiltonian to Evaluate the System's
10.40-11.05 11.05-11.30 11.30-11.55 11.55-12.20 Room C21 10.40-11.05	Chair: Yevgeny Somov Sergey Ulyanov Gennady Oparin Nadezhda Nagul Roman Khabibullin M4: Modern approximation me Chair: Metin Demiralp Nasır Abdülbaki Baykara	A VLF-based technique for analysis and synthesis of nonlinear digital control systems and its applications Automation of Multi-Agent Control for Complex Dynamic Systems in Heterogeneous Computational Network On the problem of discrete-event systems properties preservation Nonlinear Modeling and Study for Control of the Research Spacecraft with Solar Sail ethodologies for functions and arrays in science and engineering computations Overflow Removal from the Images of an Infinite Linear Combination Over a Basis
10.40-11.05 11.05-11.30 11.30-11.55 11.55-12.20 Room C21 10.40-11.05	Chair: Yevgeny Somov Sergey Ulyanov Gennady Oparin Nadezhda Nagul Roman Khabibullin M4: Modern approximation me Chair: Metin Demiralp Nasır Abdülbaki Baykara Berfin Kalay	A VLF-based technique for analysis and synthesis of nonlinear digital control systems and its applications Automation of Multi-Agent Control for Complex Dynamic Systems in Heterogeneous Computational Network On the problem of discrete-event systems properties preservation Nonlinear Modeling and Study for Control of the Research Spacecraft with Solar Sail Athodologies for functions and arrays in science and engineering computations Overflow Removal from the Images of an Infinite Linear Combination Over a Basis Function Set Under the Quantum System Hamiltonian to Evaluate the System's Spectral Entities A Wavefunction Free Exponential Function Expectation Value Determination Based ODE Construction and Solution to Get Spectral Entities For the Systems Having Coulombic Attractions Squarification of Telescope Matrices in the Probabilistic Evolution Theoretical
10.40-11.05 11.05-11.30 11.30-11.55 11.55-12.20 Room C21 10.40-11.05 11.05-11.30	Chair: Yevgeny Somov Sergey Ulyanov Gennady Oparin Nadezhda Nagul Roman Khabibullin M4: Modern approximation me Chair: Metin Demiralp Nasır Abdülbaki Baykara Berfin Kalay Cosar Gozukirmizi	A VLF-based technique for analysis and synthesis of nonlinear digital control systems and its applications Automation of Multi-Agent Control for Complex Dynamic Systems in Heterogeneous Computational Network On the problem of discrete-event systems properties preservation Nonlinear Modeling and Study for Control of the Research Spacecraft with Solar Sail Athodologies for functions and arrays in science and engineering computations Overflow Removal from the Images of an Infinite Linear Combination Over a Basis Function Set Under the Quantum System Hamiltonian to Evaluate the System's Spectral Entities A Wavefunction Free Exponential Function Expectation Value Determination Based ODE Construction and Solution to Get Spectral Entities For the Systems Having Coulombic Attractions Squarification of Telescope Matrices in the Probabilistic Evolution Theoretical Approach to the Two Particle Classical Mechanics as an Illustrative Implementation A Novel Compression Algorithm for Hyperspectral Images Using Enhanced
10.40-11.05 11.05-11.30 11.30-11.55 11.55-12.20 Room C21 10.40-11.05	Chair: Yevgeny Somov Sergey Ulyanov Gennady Oparin Nadezhda Nagul Roman Khabibullin M4: Modern approximation me Chair: Metin Demiralp Nasır Abdülbaki Baykara Berfin Kalay	A VLF-based technique for analysis and synthesis of nonlinear digital control systems and its applications Automation of Multi-Agent Control for Complex Dynamic Systems in Heterogeneous Computational Network On the problem of discrete-event systems properties preservation Nonlinear Modeling and Study for Control of the Research Spacecraft with Solar Sail ethodologies for functions and arrays in science and engineering computations Overflow Removal from the Images of an Infinite Linear Combination Over a Basis Function Set Under the Quantum System Hamiltonian to Evaluate the System's Spectral Entities A Wavefunction Free Exponential Function Expectation Value Determination Based ODE Construction and Solution to Get Spectral Entities For the Systems Having Coulombic Attractions Squarification of Telescope Matrices in the Probabilistic Evolution Theoretical Approach to the Two Particle Classical Mechanics as an Illustrative Implementation
10.40-11.05 11.05-11.30 11.30-11.55 11.55-12.20 Room C21 10.40-11.05 11.05-11.30 11.30-11.55 11.55-12.20	Chair: Yevgeny Somov Sergey Ulyanov Gennady Oparin Nadezhda Nagul Roman Khabibullin M4: Modern approximation me Chair: Metin Demiralp Nasır Abdülbaki Baykara Berfin Kalay Cosar Gozukirmizi Süha Tuna	A VLF-based technique for analysis and synthesis of nonlinear digital control systems and its applications Automation of Multi-Agent Control for Complex Dynamic Systems in Heterogeneous Computational Network On the problem of discrete-event systems properties preservation Nonlinear Modeling and Study for Control of the Research Spacecraft with Solar Sail ethodologies for functions and arrays in science and engineering computations Overflow Removal from the Images of an Infinite Linear Combination Over a Basis Function Set Under the Quantum System Hamiltonian to Evaluate the System's Spectral Entities A Wavefunction Free Exponential Function Expectation Value Determination Based ODE Construction and Solution to Get Spectral Entities For the Systems Having Coulombic Attractions Squarification of Telescope Matrices in the Probabilistic Evolution Theoretical Approach to the Two Particle Classical Mechanics as an Illustrative Implementation A Novel Compression Algorithm for Hyperspectral Images Using Enhanced Multivariance Products Representation
10.40-11.05 11.05-11.30 11.30-11.55 11.55-12.20 Room C21 10.40-11.05 11.05-11.30	Chair: Yevgeny Somov Sergey Ulyanov Gennady Oparin Nadezhda Nagul Roman Khabibullin M4: Modern approximation me Chair: Metin Demiralp Nasır Abdülbaki Baykara Berfin Kalay Cosar Gozukirmizi Süha Tuna	A VLF-based technique for analysis and synthesis of nonlinear digital control systems and its applications Automation of Multi-Agent Control for Complex Dynamic Systems in Heterogeneous Computational Network On the problem of discrete-event systems properties preservation Nonlinear Modeling and Study for Control of the Research Spacecraft with Solar Sail Athodologies for functions and arrays in science and engineering computations Overflow Removal from the Images of an Infinite Linear Combination Over a Basis Function Set Under the Quantum System Hamiltonian to Evaluate the System's Spectral Entities A Wavefunction Free Exponential Function Expectation Value Determination Based ODE Construction and Solution to Get Spectral Entities For the Systems Having Coulombic Attractions Squarification of Telescope Matrices in the Probabilistic Evolution Theoretical Approach to the Two Particle Classical Mechanics as an Illustrative Implementation A Novel Compression Algorithm for Hyperspectral Images Using Enhanced
10.40-11.05 11.05-11.30 11.30-11.55 11.55-12.20 Room C21 10.40-11.05 11.05-11.30 11.30-11.55 11.55-12.20	Chair: Yevgeny Somov Sergey Ulyanov Gennady Oparin Nadezhda Nagul Roman Khabibullin M4: Modern approximation me Chair: Metin Demiralp Nasır Abdülbaki Baykara Berfin Kalay Cosar Gozukirmizi Süha Tuna S1: Analysis of Fractional Diffe	A VLF-based technique for analysis and synthesis of nonlinear digital control systems and its applications Automation of Multi-Agent Control for Complex Dynamic Systems in Heterogeneous Computational Network On the problem of discrete-event systems properties preservation Nonlinear Modeling and Study for Control of the Research Spacecraft with Solar Sail ethodologies for functions and arrays in science and engineering computations Overflow Removal from the Images of an Infinite Linear Combination Over a Basis Function Set Under the Quantum System Hamiltonian to Evaluate the System's Spectral Entities A Wavefunction Free Exponential Function Expectation Value Determination Based ODE Construction and Solution to Get Spectral Entities For the Systems Having Coulombic Attractions Squarification of Telescope Matrices in the Probabilistic Evolution Theoretical Approach to the Two Particle Classical Mechanics as an Illustrative Implementation A Novel Compression Algorithm for Hyperspectral Images Using Enhanced Multivariance Products Representation
10.40-11.05 11.05-11.30 11.30-11.55 11.55-12.20 Room C21 10.40-11.05 11.30-11.55 11.55-12.20 Room C01 10.40-11.05 11.05-11.30	Chair: Yevgeny Somov Sergey Ulyanov Gennady Oparin Nadezhda Nagul Roman Khabibullin M4: Modern approximation me Chair: Metin Demiralp Nasır Abdülbaki Baykara Berfin Kalay Cosar Gozukirmizi Süha Tuna S1: Analysis of Fractional Diffechair: Aghalaya S. Vatsala Amit Setia Belmechri Firouz	A VLF-based technique for analysis and synthesis of nonlinear digital control systems and its applications Automation of Multi-Agent Control for Complex Dynamic Systems in Heterogeneous Computational Network On the problem of discrete-event systems properties preservation Nonlinear Modeling and Study for Control of the Research Spacecraft with Solar Sail Athodologies for functions and arrays in science and engineering computations Overflow Removal from the Images of an Infinite Linear Combination Over a Basis Function Set Under the Quantum System Hamiltonian to Evaluate the System's Spectral Entities A Wavefunction Free Exponential Function Expectation Value Determination Based ODE Construction and Solution to Get Spectral Entities For the Systems Having Coulombic Attractions Squarification of Telescope Matrices in the Probabilistic Evolution Theoretical Approach to the Two Particle Classical Mechanics as an Illustrative Implementation A Novel Compression Algorithm for Hyperspectral Images Using Enhanced Multivariance Products Representation Haar based numerical solution of Fredholm-Volterra fractional integro-differential equation with nonlocal boundary conditions Integral equation in functional spaces / Generalized Lebesgue space [-1] (-1) (-1)
10.40-11.05 11.05-11.30 11.30-11.55 11.55-12.20 Room C21 10.40-11.05 11.30-11.55 11.55-12.20 Room C01 10.40-11.05	Chair: Yevgeny Somov Sergey Ulyanov Gennady Oparin Nadezhda Nagul Roman Khabibullin M4: Modern approximation me Chair: Metin Demiralp Nasır Abdülbaki Baykara Berfin Kalay Cosar Gozukirmizi Süha Tuna S1: Analysis of Fractional Diffe Chair: Aghalaya S. Vatsala Amit Setia	A VLF-based technique for analysis and synthesis of nonlinear digital control systems and its applications Automation of Multi-Agent Control for Complex Dynamic Systems in Heterogeneous Computational Network On the problem of discrete-event systems properties preservation Nonlinear Modeling and Study for Control of the Research Spacecraft with Solar Sail Authodologies for functions and arrays in science and engineering computations Overflow Removal from the Images of an Infinite Linear Combination Over a Basis Function Set Under the Quantum System Hamiltonian to Evaluate the System's Spectral Entities A Wavefunction Free Exponential Function Expectation Value Determination Based ODE Construction and Solution to Get Spectral Entities For the Systems Having Coulombic Attractions Squarification of Telescope Matrices in the Probabilistic Evolution Theoretical Approach to the Two Particle Classical Mechanics as an Illustrative Implementation A Novel Compression Algorithm for Hyperspectral Images Using Enhanced Multivariance Products Representation Haar based numerical solution of Fredholm-Volterra fractional integro-differential equation with nonlocal boundary conditions

Room C02	S15: Stochastic Processes and Fields in Engineering		
	Chair: Anatoliy Malyarenko		
10.40-11.05	Anatoliy Malyarenko	Spectral expansions of tensor-valued random fields (invited talk)	
11.05-11.30	Nikolai Leonenko	Fractional Poisson Random Fields	
11.30-11.55	Ying Ni	Approximation methods of European option pricing in multiscale stochastic volatility model	
11.55-12.20	Dmitrii Silvestrov	Randomly Stopped Stochastic Processes	
12.20-12.40	Anatoliy Malyarenko	Anatoliy Malyarenko and Martin Ostoja-Starzewski. Random fields related to the symmetry classes of second-order symmetric tensors	

Room C24	S6: Integral Equations and Their Applications in Science and Technology				
	Chair: Jozef Banas				
10.40-11.30	Luis Castro	On the solvability of a class of convolution integral equations with symmetry			
11.30-11.55	Rita Guerra	Fourier cosine and Fourier sine integral equations and their convolutions			
11.55-12.20	Anabela Silva	Invertibility of Wiener-Hoof plus Hankel integral equations			

Room C27	S11: Nonlinear Engineering Pro	oblems with Singularities
	Chair: Marat Dosaev	
10.40-11.05	Anton Putov	Electromechanical imitator of antilock braking modes of wheels with pneumatic tire and its application for the runways friction coefficient measurement
11.05-11.30	Qingchun Yang	A Predication model for combustion modes of the scramjet-powered aerospace vehicle based on the nonlinear features of the isolator flow field
11.30-11.55	Mehmet Pakdemirli	Nonlinear Mathematical Models for Paths Maintaining Constant Normal Accelerations
11.55-12.20	Çiğdem A. Bektas	On a new space of defined by using Orlicz functions

12.20-14.00 lunch break

14.00-16.05 Parallel sessions

M2: Engineering Mathematics: wavelets, fractals, networks and matrices in computational electromagnetics, antennas, fluid dynamics and biomathematics.

Chair: Sergei Silvestrov

14.00-14.25	Prashant G. Metri	Lie group analysis for MHD boundary layer flow and heat transfer over stretching sheet with viscous dissipation and uniform heat source
14.25-14.50	Prashant G. Metri	Hypergeometric Steady Solution of Hydromagnetic Nano Liquid Film Flow over an Unsteady Stretching Sheet
14.50-15.15	Brice Montagné	Influence of nozzle shape, Reynolds number and nozzle-to-plate distance on flow characteristics, wall shear rate and mass transfer generated by submerged round impinging jets
15.15-15.40	Pierre Bragança	Passive control of supplied air jets for thermal comfort improvement in ventilated spaces

Room A400 M5: Nonlinear Problems of Guidance, Navigation and Control

Chair: Yevgenv Somov

	Oriali. Torgony Comov	
14.00-14.25	Alexander Kozlov	An analytic approach to the relation between GPS attitude determination accuracy and antenna configuration geometry
14.25-14.50	Tatyana Somova	Attitude guidance and simulation with animation of a land-survey satellite motion
14.50-15.15	Alexander Kucherov	Estimation of Land Remote Sensing Satellites Productivity Based on the Simulation Technique
15.15-15.40	Andrey Shevchenko	Nonlinear Algorithm for Navigation of a Moving Object in Magnetic Field

Room C21 M4: Modern approximation methodologies for functions and arrays in science and engineering computations Chair: Metin Demiralp

14.00-14.25	Zeynep Gündoğar	Transformational Tridiagonal Folmat Enhanced Multivariance Products Representation (TTFEMPR) Possibilities in Multivariate Array Decomposition
14.25-14.50	Ayla Okan	A TMEMPR Based Approach for Transforming Arrowheaded Matrices to Tridiagonal Forms
14.50-15.15	Ayşegül Karcili	High Dimensional Model Representation (HDMR) with Clustering for Image Retrieval

Room C01	S1: Analysis of Fractional Di	fferential, Integral and Difference equations with Applications
	Chair: Abdon Atangana	
14.00-14.25	Sowmya Muniswamy	Generalized Monotone Method and Numerical Approach for Coupled Reaction Diffusion Systems
14.25-14.50	Amit Setia	Numerical method to solve cauchy type singular integral equation with error bounds
14.50-15.15	Berikbol Torebek	On a nonlinear fractional boundary value problem
15.15-15.40	Suares Clovis Oukouomi Noutchie	Global solvability of a class of fractional integro-differential equations with applications

Room C02	S14: Statistics and Modeling	
	Chair: Milan Stehlik	
14.00-14.25	Polychronis Economou	Control charts and differentiation of sampling schemes among Phase I and Phase II
14.25-14.50	Ilia Frenkel	Importance assessment of aging multi-state water cooling system by LZ-transform method
14.50-15.15	Orietta Nicolis	Spatio-temporal modelling for assessing air pollution in Santiago of Chile
15.15-15.40	Klaus Poetzelberger	Estimating The Quantization Dimension of Distributions
15.40-16.05	Sabri Salima	Recognition of human activities from situation based model

Room C24	S6: Integral Equations and	Their Applications in Science and Technology
	Chair: Luis Castro	
14.00-14.25	Alberto Simões	Hyers-Ulam-Rassias stability for a class of Hammerstein integral equations
14.25-14.50	M.Manuela Rodrigues	Some new properties and applications of a fractional Fourier transform
14.50-15.15	Bakhyt Alipova	Shock Waves As Generalized Solutons Of Thermoelastodynamics Equations. On The Uniqueness Of Boundary Value Problems Solutions.
15.15-15.40	Ahu Ercan	Stability Problem for Singular Dirac Equation System on Finite Interval
15.40-16.05	Sinan Ercan	The dual spaces of new lambda^m-sequence spaces and their matrix maps

Room C27	S3: Control and Estimation: The	eory and Applications
	Chair: Allen R. Stubberud and Ste	ephen Stubberud
14.00-14.25	Tuan Duong	Integration of Bio-Inspired, Control-Based Visual and Olfactory Data for the Detection of an Elusive Target
14.25-14.50	Endre Nagy	Model Predictive Control: a new approach
14.50-15.15	Stephen Stubberud	Submarine Harbor Navigation Using Image Data
15.15-15.40	Zoleikha Abdollahi Biron	Observer based fault diagnostics for networked control systems in presence of delay
15.40-16.05	Allen Stubberud	A Unified Kalman Filter

16.30-18.00	AQUARIUM visit
20.00-	BANQUET - Restaurant Océanides/Hotel Mercure

		THURSDAY – July 7
9.30-10.20		Keynote talks
		<u>.</u>
Room A300 8.40-9.30	Chair: Dr. Svetlin Georgiev Prof. Ruggero Maria SANTILLI	Outline of the new era in mathematics and its applications
9.30-10.20	Prof. Jan AWREJCEWICZ	Novel non-linear phenomena exhibited by interacting structural members
Room A400	Chair: Prof. Stefan Balint	
		The influence of time dependent flight and maneuver velocities and elastic or
8.40-9.30 9.30-10.20	Prof. Harry HILTON Prof. Gangaram S. LADDE	viscoelastic flexibilities on aerodynamic and stability derivatives Stochastic Partial Differential Equations: Modeling, Methods and Applications
9.30-10.20	FIOI. Gangaram S. LADDL	Stochastic Fartial Differential Equations. Modeling, Methods and Applications
40 20 40 40		Develled consists
10.30-12.10		Parallel sessions
Room A300	0,	merical algorithms and aerospace techniques
10.30-10.55	Chair: Alexandru Dumitrache Robert Szabo	Lyapunov stability of a spatially developing constant 2D gas flow
10.00-10.00	Robert Ozabo	Non Lyapunov stability of the constant spatially developing 1-D gas flow in presence
10.55-11.20	Agneta Balint	of solutions having strictly positive exponential growth rate
11.20-11.45 11.45-12.10	Andreea Cernat Florin Frunzulica	Numerical Analysis of NREL VI Wind Turbine Rotor Performance Aerodynamics investigations of a disc-wing UAV
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Room A400	M6: Studies on Mathematical M	lethods and Models in Engineering, Sciences and Technology
ROOM A400	Chair: Frederic Muttin	lethous and models in Engineering, Sciences and Technology
40.00.40.77	No adat Dildila	Modification of perturbation-iteration method to solve different types of nonlinear
10.30-10.55 10.55-11.20	Necdet Bildik Yusuf Pandir	differential equations A new version of the generalized F-expansion method and its applications
11.20-11.45	Simge Öztunç	Properties of Soft Homotopy in Digital Images
11.45-12.10	Duygu Dönmez Demir	Determining Critical Load in the Multispan Beams with the Nonlinear Model
Room C21		elated Topics with Applications
	Chair: Lars-Erik Persson and Ma	ria Alessandra Ragusa
Room C21 10.30-10.55 10.55-11.20		
10.30-10.55 10.55-11.20	Chair: Lars-Erik Persson and Mai Peter Wall Afonso Fernando Tsandzana	ria Alessandra Ragusa Homogenization and thin film flow Homogenization of a mathematical model of thin film flow The concept of very weak multiscale convergence and some applications to
10.30-10.55	Chair: Lars-Erik Persson and Man	ria Alessandra Ragusa Homogenization and thin film flow Homogenization of a mathematical model of thin film flow
10.30-10.55 10.55-11.20 11.20-11.45	Chair: Lars-Erik Persson and Mai Peter Wall Afonso Fernando Tsandzana Anders Holmbom	Homogenization and thin film flow Homogenization of a mathematical model of thin film flow The concept of very weak multiscale convergence and some applications to homogenization of evolution problems
10.30-10.55 10.55-11.20 11.20-11.45 11.45-12.10	Chair: Lars-Erik Persson and Ma Peter Wall Afonso Fernando Tsandzana Anders Holmbom Evgeniya Burtseva	Homogenization and thin film flow Homogenization of a mathematical model of thin film flow The concept of very weak multiscale convergence and some applications to homogenization of evolution problems SIO in non-standard spaces
10.30-10.55 10.55-11.20 11.20-11.45	Chair: Lars-Erik Persson and Mai Peter Wall Afonso Fernando Tsandzana Anders Holmbom	Homogenization and thin film flow Homogenization of a mathematical model of thin film flow The concept of very weak multiscale convergence and some applications to homogenization of evolution problems SIO in non-standard spaces
10.30-10.55 10.55-11.20 11.20-11.45 11.45-12.10 Room C01	Chair: Lars-Erik Persson and Mai Peter Wall Afonso Fernando Tsandzana Anders Holmbom Evgeniya Burtseva M5: Nonlinear Problems of Gui Chair: Yevgeny Somov	Homogenization and thin film flow Homogenization of a mathematical model of thin film flow The concept of very weak multiscale convergence and some applications to homogenization of evolution problems SIO in non-standard spaces Monlinear research of an image motion stabilization system embedded in a space
10.30-10.55 10.55-11.20 11.20-11.45 11.45-12.10	Chair: Lars-Erik Persson and Mai Peter Wall Afonso Fernando Tsandzana Anders Holmbom Evgeniya Burtseva M5: Nonlinear Problems of Gui Chair: Yevgeny Somov Yevgeny Somov Maksim Fain	Homogenization and thin film flow Homogenization of a mathematical model of thin film flow The concept of very weak multiscale convergence and some applications to homogenization of evolution problems SIO in non-standard spaces dance, Navigation and Control
10.30-10.55 10.55-11.20 11.20-11.45 11.45-12.10 Room C01 10.30-10.55 10.55-11.20 11.20-11.45	Chair: Lars-Erik Persson and Mai Peter Wall Afonso Fernando Tsandzana Anders Holmbom Evgeniya Burtseva M5: Nonlinear Problems of Gui Chair: Yevgeny Somov Yevgeny Somov Maksim Fain Alexander Kucherov	Homogenization and thin film flow Homogenization of a mathematical model of thin film flow The concept of very weak multiscale convergence and some applications to homogenization of evolution problems SIO in non-standard spaces Monlinear research of an image motion stabilization system embedded in a space land-survey telescope Time-Optimal Control of the Spacecraft Trajectories in the Earth-Moon System Estimation of Land Remote Sensing Satellites Operational Efficiency
10.30-10.55 10.55-11.20 11.20-11.45 11.45-12.10 Room C01 10.30-10.55 10.55-11.20	Chair: Lars-Erik Persson and Mai Peter Wall Afonso Fernando Tsandzana Anders Holmbom Evgeniya Burtseva M5: Nonlinear Problems of Gui Chair: Yevgeny Somov Yevgeny Somov Maksim Fain	Homogenization and thin film flow Homogenization of a mathematical model of thin film flow The concept of very weak multiscale convergence and some applications to homogenization of evolution problems SIO in non-standard spaces Nonlinear research of an image motion stabilization system embedded in a space land-survey telescope Time-Optimal Control of the Spacecraft Trajectories in the Earth-Moon System
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10.30-10.55 10.55-11.20 11.20-11.45 11.45-12.10 Room C01 10.30-10.55 10.55-11.20 11.20-11.45 11.45-12.10 Room C02	Chair: Lars-Erik Persson and Mai Peter Wall Afonso Fernando Tsandzana Anders Holmbom Evgeniya Burtseva M5: Nonlinear Problems of Gui Chair: Yevgeny Somov Yevgeny Somov Maksim Fain Alexander Kucherov Igor Davydov S16: Modelling, Simulation and Chair: Amer Farhan Rafique	Homogenization and thin film flow Homogenization of a mathematical model of thin film flow The concept of very weak multiscale convergence and some applications to homogenization of evolution problems SIO in non-standard spaces Monlinear research of an image motion stabilization system embedded in a space land-survey telescope Time-Optimal Control of the Spacecraft Trajectories in the Earth-Moon System Estimation of Land Remote Sensing Satellites Operational Efficiency Nonlinear modeling of an aerospace object dynamics Optimization in Engineering Atmospheric Icinig Intensity on Slowly Rotating Hexagonal Prism and Cylinder with
10.30-10.55 10.55-11.20 11.20-11.45 11.45-12.10 Room C01 10.30-10.55 10.55-11.20 11.20-11.45 11.45-12.10 Room C02 10.30-10.55 10.55-11.20	Chair: Lars-Erik Persson and Mai Peter Wall Afonso Fernando Tsandzana Anders Holmbom Evgeniya Burtseva M5: Nonlinear Problems of Gui Chair: Yevgeny Somov Yevgeny Somov Maksim Fain Alexander Kucherov Igor Davydov S16: Modelling, Simulation and Chair: Amer Farhan Rafique Umair Najeeb Mughal Andrey Nasedkin	Homogenization and thin film flow Homogenization of a mathematical model of thin film flow The concept of very weak multiscale convergence and some applications to homogenization of evolution problems SIO in non-standard spaces Monlinear research of an image motion stabilization system embedded in a space land-survey telescope Time-Optimal Control of the Spacecraft Trajectories in the Earth-Moon System Estimation of Land Remote Sensing Satellites Operational Efficiency Nonlinear modeling of an aerospace object dynamics Optimization in Engineering Atmospheric Icinig Intensity on Slowly Rotating Hexagonal Prism and Cylinder with Fins Models and finite element approximations for interacting nanosized piezoelectric bodies and acoustic medium Optimization of Wall Thickness and Lay-Up for the Shell-Like Composite Structure
10.30-10.55 10.55-11.20 11.20-11.45 11.45-12.10 Room C01 10.30-10.55 10.55-11.20 11.20-11.45 11.45-12.10 Room C02 10.30-10.55 10.55-11.20 11.20-11.45	Chair: Lars-Erik Persson and Mai Peter Wall Afonso Fernando Tsandzana Anders Holmbom Evgeniya Burtseva M5: Nonlinear Problems of Gui Chair: Yevgeny Somov Yevgeny Somov Maksim Fain Alexander Kucherov Igor Davydov S16: Modelling, Simulation and Chair: Amer Farhan Rafique Umair Najeeb Mughal Andrey Nasedkin Sergey Shevtsov	Homogenization and thin film flow Homogenization of a mathematical model of thin film flow The concept of very weak multiscale convergence and some applications to homogenization of evolution problems SIO in non-standard spaces Monlinear research of an image motion stabilization system embedded in a space land-survey telescope Time-Optimal Control of the Spacecraft Trajectories in the Earth-Moon System Estimation of Land Remote Sensing Satellites Operational Efficiency Nonlinear modeling of an aerospace object dynamics Optimization in Engineering Atmospheric Icinig Intensity on Slowly Rotating Hexagonal Prism and Cylinder with Fins Models and finite element approximations for interacting nanosized piezoelectric bodies and acoustic medium Optimization of Wall Thickness and Lay-Up for the Shell-Like Composite Structure Loaded by Non-Uniform Pressure Field
10.30-10.55 10.55-11.20 11.20-11.45 11.45-12.10 Room C01 10.30-10.55 10.55-11.20 11.20-11.45 11.45-12.10 Room C02 10.30-10.55 10.55-11.20	Chair: Lars-Erik Persson and Mai Peter Wall Afonso Fernando Tsandzana Anders Holmbom Evgeniya Burtseva M5: Nonlinear Problems of Gui Chair: Yevgeny Somov Yevgeny Somov Maksim Fain Alexander Kucherov Igor Davydov S16: Modelling, Simulation and Chair: Amer Farhan Rafique Umair Najeeb Mughal Andrey Nasedkin	Homogenization and thin film flow Homogenization of a mathematical model of thin film flow The concept of very weak multiscale convergence and some applications to homogenization of evolution problems SIO in non-standard spaces Monlinear research of an image motion stabilization system embedded in a space land-survey telescope Time-Optimal Control of the Spacecraft Trajectories in the Earth-Moon System Estimation of Land Remote Sensing Satellites Operational Efficiency Nonlinear modeling of an aerospace object dynamics Optimization in Engineering Atmospheric Icinig Intensity on Slowly Rotating Hexagonal Prism and Cylinder with Fins Models and finite element approximations for interacting nanosized piezoelectric bodies and acoustic medium Optimization of Wall Thickness and Lay-Up for the Shell-Like Composite Structure
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Room C27	S9: New Era in Mathematic	es estate de la constant de la const
	Chair: Svetlin Georgiev	
10.30-10.55	Svetlin Georgiev	Some aspects of iso-differential calculus
10.55-11.20	Thomas Vougiouklis	1. Small Hypernumbers, 2. On the iso-hyper-representation theory, 3. Helix hopes in Lie-Santilli addmissibility, 4. The LV-hyperstructures in Santilli's iso-theory
11.20-11.45	Ruggero Santilli	Exact and invariant representation of nuclear magnetic moments according to Isomathematics and Isomechanics
11.45-12.10	Anil A. Bhalekar	Exact and invariant representation of nuclear spins via isomathematics and isomechanics
12.10-14.00		lunch break
14.00-14.50		Keynote talks
Room A300	Chair: Prof. Harry H. Hilton	
14.00-14.50	Dr. Jiro NAKAMICHI	Some Considerations on Prandtl Lifting-Line Theory
Room A400	Chair: Prof. Vladimir V. Kulis	sh
14.00-14.50	Prof. Rudolf HILFER	Experimental implications of Bochner-Levy-Riesz diffusion
15.00-16.40		Parallel sessions
Room A300	M3: Mathematical modelin	g, numerical algorithms and aerospace techniques
	Chair: Florin Frunzulica	0 /
15.00-15.25	Dina Razafindralandy	Considering factorial series as time integration method
15.25-15.50	Alexandru Dumitrache	Twin Flapping wings as an alternative method of harvesting energy from wind
15.50-16.15	Adriana Tanasie	Non Lyapunov stability of a constant spatially developing 2-D gas flow
16.15-16.40	Cosmin Katona	The effect of wind direction and building surroundings on a marina bay in the Black Sea
Room A400	M6: Studios on Mathematic	cal Methods and Models in Engineering, Sciences and Technology
ROUIII A400	Chair: Necdet Bildik	cal Methods and Models in Engineering, Sciences and Technology
15.00-15.25	Ali Demir	The prediction of brick wall strengths with artificial neural networks model
15.25-15.50	Sinan Deniz	Applications of Optimal Perturbation Iteration Method for solving Nonlinear Differential Equations
15.50-16.15	Frédéric Muttin	Numerical modelling and experimentation of curtain containing floating oil pollution in harbor
16.15-16.40	Hassan Khawaja	Applicability Extent of 2-D Heat Equation for Numerical Analysis of Multiphysics Problems
Room C21	M1: Functional Analysis a	nd Related Topics with Applications
	Chair: Natasha Samko and I	
		A convexity approach to consider and prove Hardy type inequalities with sharp
15.00-15.25	Lars-Erik Persson	constants
15.25-15.50	Staffan Lundberg	On a solution of some hyperbolic type equations
		On Weighted Sub-linear Operators in Generalized Morrey Spaces and their
15.50-16.15	Natasha Samko	applications
16.15-16.40	Yevgeniy Guseynov	Layer potentials on rough boundaries and fractals
	OF D.1. DW	
Room C01	S5: Delay Differential Equa Chair: Andrei Halanay	ations Models in Life Sciences, Engineering and Economics
15.00-15.25	Rodica Radulescu	Dynamics of complex-valued fractional-order neuronal networks
	1.100.00.1.1000.000	The stability analysis of a hypothalamic pituitary adrenal axis model with inclusion of
15.25-15.50	Mihaela Neamtu	the glucocorticoid receptor and memory Stability analysis for a delay differential equations model of a hydraulic turbine speed
15.50-16.15	Carmen-Anca Safta	governor
16.15-16.40	Doina Candea	Parameter estimation and sensitivity analysis for a mathematical model with time delays of leukemia

Room C02	S13: Soliton Theory and Int	egrability in Mathematical Physics
	Chair: Omer Unsal	
15.00-15.25	Melike Kaplan	The Auto- Bäcklund transformations for the (2 + 1)-dimensional Boiti-Leon-Manna-Pempinelli equation
15.25-15.50	Burcu Ayhan	Multiple Scales Analysis and Travelling Wave Solutions for KdV Type Nonlinear Evolution Equations
15.50-16.15	Ömer Ünsal	Singular 1-solution of the nonlinear variable-coefficient diffusion–reaction and mKdV equations
16.15-16.40	Murat Koparan	A Novel Generalized Kudryashov Method for Exact Solutions of Nonlinear Evolution Equations
Room C24	CO. Mathematical Droblems	in Combustion and Fire Science
Room C24	Chair: Vasily Novozhilov	III Compustion and Fire Science
15.00-15.25	Jean-Louis Consalvi	Modelling Emission Turbulence-Radiation Interaction by using a Hybrid Flamelet/Stochastic Eulerian Field Method
	V4 - 12 - 14 - 15 - 1	Application of fractional calculus to modelling transient combustion of solid
15.25-15.50 15.50-16.15	Vladimir Kulish Vasily Novozhilov	propellants Fire Suppression as a Thermal Implosion
13.30-10.13	Vaciny Novozimov	The cuppression as a memaning society
Room C27	S9: New Era in Mathematics	
45.00.45.05	Chair: Andrew Beckwith	Liltra relativistic heavy ion collisions at the Large Hadron Collidar are
15.00-15.25	Jan Rak	Ultra-relativistic heavy ion collisions at the Large Hadron Collider era The influence of Latin squares autotopisms on the rocket propellant problem and the
15.25-15.50	Raul Falcon	radar detection experiment
15.50-16.15	Simone Beghella Bartoli	Apparent need of antimatter galaxies for the stability of the universe
16.15-16.40	Achilles Dramalidis	On the iso-hyper-representation theory
16.40-17.00		coffee break
47.00.40.05		Described associates
17.00-19.05		Parallel sessions
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Room A300	M3: Mathematical modeling	, numerical algorithms and aerospace techniques
Room A300	M3: Mathematical modeling Chair: Alexandru Dumitrache	, numerical algorithms and aerospace techniques
Room A300 17.00-17.25	Chair: Alexandru Dumitrache	Modelling of delamination growth in laminated plates using cohesive zone model
17.00-17.25	Chair: Alexandru Dumitrache Sergey Chernyakin	Modelling of delamination growth in laminated plates using cohesive zone model techniques
	Chair: Alexandru Dumitrache	Modelling of delamination growth in laminated plates using cohesive zone model
17.00-17.25 17.25-17.50	Chair: Alexandru Dumitrache Sergey Chernyakin Andreea Cernat	Modelling of delamination growth in laminated plates using cohesive zone model techniques Numerical Study of Aerodynamic Effects on Road Vehicles Lifting Surfaces
17.00-17.25 17.25-17.50 17.50-18.15	Chair: Alexandru Dumitrache Sergey Chernyakin Andreea Cernat Andrei Kolyshkin	Modelling of delamination growth in laminated plates using cohesive zone model techniques Numerical Study of Aerodynamic Effects on Road Vehicles Lifting Surfaces Stability of shallow flows: a weakly nonlinear approach
17.00-17.25 17.25-17.50	Chair: Alexandru Dumitrache Sergey Chernyakin Andreea Cernat Andrei Kolyshkin S4: Control of nonlinear sys	Modelling of delamination growth in laminated plates using cohesive zone model techniques Numerical Study of Aerodynamic Effects on Road Vehicles Lifting Surfaces
17.00-17.25 17.25-17.50 17.50-18.15 Room A400	Chair: Alexandru Dumitrache Sergey Chernyakin Andreea Cernat Andrei Kolyshkin S4: Control of nonlinear systems: Diego Colon	Modelling of delamination growth in laminated plates using cohesive zone model techniques Numerical Study of Aerodynamic Effects on Road Vehicles Lifting Surfaces Stability of shallow flows: a weakly nonlinear approach
17.00-17.25 17.25-17.50 17.50-18.15 Room A400 17.00-17.25	Chair: Alexandru Dumitrache Sergey Chernyakin Andreea Cernat Andrei Kolyshkin S4: Control of nonlinear sys	Modelling of delamination growth in laminated plates using cohesive zone model techniques Numerical Study of Aerodynamic Effects on Road Vehicles Lifting Surfaces Stability of shallow flows: a weakly nonlinear approach stems under deterministic and stochastic loads Stationary Action and Hamilton-Jacobi Theory
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17.00-17.25 17.25-17.50 17.50-18.15 Room A400 17.00-17.25 17.25-17.50 17.50-18.15 18.15-18.40 18.40-19.05 Room C21 17.00-17.25 17.25-17.50 17.50-18.15	Chair: Alexandru Dumitrache Sergey Chernyakin Andreea Cernat Andrei Kolyshkin S4: Control of nonlinear systems of the control of nonli	Modelling of delamination growth in laminated plates using cohesive zone model techniques Numerical Study of Aerodynamic Effects on Road Vehicles Lifting Surfaces Stability of shallow flows: a weakly nonlinear approach stems under deterministic and stochastic loads Stationary Action and Hamilton-Jacobi Theory Nonlinear Model Predictive Control for Cooperative Control of Space Robots Mathematical modeling of a Bridge Crane Damage propagation on a non-ideal vibrating system, with fractional spring and damping Computational Analysis of Unmanned Aerial Vehicle (UAV) d Related Topics with Applications laria Alessandra Ragusa Perturbation methods for nonlinear elliptic problems Elliptic PDE, and SIO in non-standard spaces On spectral properties and invertibility of some operators of Mathematical Physics Several estimates for generalized fractional integrals on
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17.00-17.25 17.25-17.50 17.50-18.15 Room A400 17.00-17.25 17.25-17.50 17.50-18.15 18.15-18.40 18.40-19.05 Room C21 17.00-17.25 17.25-17.50 17.50-18.15 18.15-18.40 18.40-19.05	Chair: Alexandru Dumitrache Sergey Chernyakin Andreea Cernat Andrei Kolyshkin S4: Control of nonlinear systems of the control of nonli	Modelling of delamination growth in laminated plates using cohesive zone model techniques Numerical Study of Aerodynamic Effects on Road Vehicles Lifting Surfaces Stability of shallow flows: a weakly nonlinear approach Stems under deterministic and stochastic loads Stationary Action and Hamilton-Jacobi Theory Nonlinear Model Predictive Control for Cooperative Control of Space Robots Mathematical modeling of a Bridge Crane Damage propagation on a non-ideal vibrating system, with fractional spring and damping Computational Analysis of Unmanned Aerial Vehicle (UAV) d Related Topics with Applications laria Alessandra Ragusa Perturbation methods for nonlinear elliptic problems Elliptic PDE, and SIO in non-standard spaces On spectral properties and invertibility of some operators of Mathematical Physics Several estimates for generalized fractional integrals on \$\text{Nambda\$-\$\mathrm{CMO}}\$ spaces Regularity of solutions to linear elliptic equations in Generalized Morrey Spaces
17.00-17.25 17.25-17.50 17.50-18.15 Room A400 17.00-17.25 17.25-17.50 17.50-18.15 18.15-18.40 17.00-17.25 17.25-17.50 17.25-17.50 17.50-18.15	Chair: Alexandru Dumitrache Sergey Chernyakin Andreea Cernat Andrei Kolyshkin S4: Control of nonlinear systems of the control of nonli	Modelling of delamination growth in laminated plates using cohesive zone model techniques Numerical Study of Aerodynamic Effects on Road Vehicles Lifting Surfaces Stability of shallow flows: a weakly nonlinear approach Stems under deterministic and stochastic loads Stationary Action and Hamilton-Jacobi Theory Nonlinear Model Predictive Control for Cooperative Control of Space Robots Mathematical modeling of a Bridge Crane Damage propagation on a non-ideal vibrating system, with fractional spring and damping Computational Analysis of Unmanned Aerial Vehicle (UAV) d Related Topics with Applications laria Alessandra Ragusa Perturbation methods for nonlinear elliptic problems Elliptic PDE, and SIO in non-standard spaces On spectral properties and invertibility of some operators of Mathematical Physics Several estimates for generalized fractional integrals on \$\text{Nambda}-\text{Shmathrm}{CMO}\}\$ spaces

Stability and oscillations in a CML model

Nonlinear dynamics in a fractional-order Morris-Lecar neuronal model Influence of Delay on Dynamical Behaviour of Nonideal Pendulum Systems

17.00-17.25 17.25-17.50

17.50-18.15

Irina Badralexi

Oana Brandibur

Aleksandr Shvets

18.15-18.40	A comparison between the stability properties in a DDEs model for leukemia and the modied fractional counterpart
18.40-19.05	New results on the stability, boundedness and periodic solutions of some third-order delay nonlinear differential equations with multiple deviating arguments

Room C02	S13: Soliton Theory and Integrability in Mathematical Physics	
	Chair: Omer Unsal	
17.00-17.25	Ömer Ünsal	The (G'/G)-expansion method for the nonlinear time fractional differential equations
17.25-17.50	Burcu Ayhan	A Family of Exact Travelling Wave Solutions of (2+1)-dimensional KdV4 Equation
17.50-18.15	Melike Kaplan	Conservation laws and exact solutions of Boussinesq-Burger equation
18.15-18.40	Ömer Ünsal	Soliton solutions and other solutions to a nonlinear fractional differential equations

Room C24	S8: Mathematical Problems in Combustion and Fire Science	
	Chair: Vasily Novozhilov	
17.00-17.25	Vladimir Kulish	On the possibility to develop an advanced non-equilibrium model of depressurisation in two-phase fluids
17.25-17.50	Dominique Morvan	How simulating wildland fires: the multiphase approach?
17.50-18.15	Vasily Novozhilov	Effects of Initial and Boundary Conditions on Thermal Explosion Development

Room C27	S9: New Era in Mathematics	
	Chair: Svetlin Georgiev	
17.00-17.25	Simone Beghella Bartoli	Trajectories of antimatter asteroids in our Solar system
17.25-17.50	Achilles Dramalidis	Helix hopes in Lie-Santilli addmissibility
17.50-18.15	Achilles Dramalidis	Small Hypernumbers

		FRIDAY – July 8
8.30-10.10		Keynote talks
0.00-10.10		Noyhote taile
Room A400	Chair: Prof. Yevgeny Somov	
8.30-9.20	Dr. Takeshi TSUCHIYA	Research on Advanced Flight Control System Using UAV Operational Loads Identification for Aerospace Structures
9.20-10.10	Dr. Toshiya NAKAMURA	Operational Loads identification for Aerospace Structures
10.10-10.40		coffee break
10.40-12.20		Parallel sessions
Room A300	-	numerical algorithms and aerospace techniques
40 40 44 05	Chair: Florin Frunzulica	NA della esta de la constanta della constanta de la constanta de la constanta de la constanta
10.40-11.05	Andrey Nasedkin Sébastien Kolb	Modeling of nanostructured porous thermoelastic composites with surface effects Nonlinear analysis and control of an aircraft in the neighbourhood of deep stall
11.05-11.30	Sepastien Roib	Using Potential Flow Theory and Conformal Mapping Technique to Measure
11.30-11.55	Umair Najeeb Mughal	Pressure Differential on Airfoil
11.55-12.20	Sergey Chernyakin	Finite element analysis of panels with surface cracks
Room A400	M6: Studios on Mathamatica	Il Methods and Models in Engineering, Sciences and Technology
Room A400	Chair: Haci Mehmet Baskonus	
10.40-11.05	Hasan Bulut	Application of the Modified Exponential Function Method to the Cahn-Allen Equation
11.05-11.30	Hassan Khawaja	Analytical Study of Sandwich Structures using Euler-Bernoulli Beam Equation
11.30-11.55	Olivier Millet	Solutions of Young-Laplace equation for capillary bridges and stability analysis
	·	New Complex and Hyperbolic Function Solutions to the Generalized Double
11.55-12.20	Haci Mehmet Baskonus	Combined Sinh-Cosh-Gordon Equation
Room C21	S2: Clifford algebras, Clifford	d analysis and their applications
ROOM OZ I	Chair: Joao Morais	a analysis and men approacisis
10.40-11.05	Isabel Cacao	Recurrence relations for hypercomplex orthogonal polynomials
11.05-11.30	Maria Irene Falcão	Computational aspects of quaternionic polynomials
	1	Constructing multivariate polynomials in function theories over non-commutative
11.30-11.55 11.55-12.20	Helmuth Malonek Eckhard Hitzer	algebras Double Conformal Space Time Algebra
11.55-12.20	ECKITATO FILEEI	Double Comornal Space Time Algebra
Room C01		ry and Application to Science and Engineering
	Chair: Davide La Torre	
10.40-11.05	Herb Kunze	An inverse problem for a system of steady-state reaction-diffusion equations acting on a perforated domain
		Surface Pressure Sensitivities for the Measurement of the Mach Number and Angle
11.05-11.30	Marius Stoia-Djeska	of Attack of Supersonic Flows
44 00 44 55	Mayrad Oylahalay	Addaptive model reduction approach in optimal control applied to solve Transfer
11.30-11.55	Mourad Oulghelou	Equations IESM Exacts I maga Companying Sparsity, and Total Variation Minimization. A
11.55-12.20	Davide La Torre	IFSM Fractal Image Compression, Sparsity, and Total Variation Minimization: A Multiobjective Approach
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	047 11 11 11 11 11	
Room C02	-	ications in Aeroelasticity and Structural Mechanics/Dynamics
	Chair: Toshiya Nakamura	Simulation of Transonic Limit Cycle Oscillations using Nonlinear Aerodynamic
10.40-11.05	Hitoshi Arizono	Modeling
11.05-11.30	Takashi Atobe	Stabilizing effects on 2D channel flow due to longitudinal wall oscillation
		Reduced Order Modeling of Aeroelasticity Analysis for a Wing under Static
11.30-11.55	Masato Tamayama	Deformation Effect Dynamic Load Estimation for a Boom using Control Difference Scheme and EEM
11.55-12.20	Toshiya Nakamura	Dynamic Load Estimation for a Beam using Central-Difference Scheme and FEM
Room C24	S4: Control of nonlinear sys	tems under deterministic and stochastic loads
	Chair: J.M. Balthazar	
10.40-11.05	Somasundar Kannan	Hierarchical Control of Aerial Manipulation Vehicle
11.05-11.30	Umair Najeeb Mughal	State of the Art Review of Semi-Active Control for Magnetorheological Dampers
11 30 11 55	Diego Colon	Polynomial Chaos and Lie Groups: Application in a Gyroscopic System with Uncertainties
11.30-11.55	DIEGO COIOII	Oncertainties

Room C27	S9: New Era in Mathematics		
	Chair: Svetlin Georgiev		
10.40-11.05	Erik Trell	The Cube in Art and Mathematics	
11.05-11.30	Andrew Beckwith		nal Wave Generation Has Semi Classical bout Compression of Vacuum Wave States, an
11.30-11.55	Stein E. Johansen	Mathematics of Space vs. Spaces	of Hadronic Mathematics
11.00-11.00	Ctelli E. condition	Wathernation of Space vo. Spaces	or riadionio iviali cinalios
12.20-14.00		lunch break	
14.00-16.05		Parallel sessions	
Room A300		numerical algorithms and aerospac	e techniques
	Chair: Alexandru Dumitrache		
	Numerical study of a finite volume scheme for incompressible Navier-Stokes		scheme for incompressible Navier-Stokes
14.00-14.25	Mohamed Alahyane	equations based on SIMPLE-family	
14.25-14.50	Sergey Chernyakin	Fatigue life prediction for expansion	
		Analysis of control system respons	es for aircraft stability and efficient numerical
14.50-15.15	Irina Andrei	techniques for real-time simulation	
15.15-15.40	Irina Andrei	renormance analysis and dynamic	modeling of a single-spool turbojet engine
Room A400	M6: Studies on Mathematical	Methods and Models in Engineerin	n Sciences and Technology
ROUIII A400	Chair: Hasan Bulut	methous and models in Engineerin	y, sciences and recimology
14.00-14.25	Hasan Bulut	Dark Soliton Solutions of Klain Co.	don-Zakharov Equation in (1+2) Dimensions
14.00-14.25 14.25-14.50	Münevver Tuz	Extended (G'/G)-Expansion Metho	
14.25-14.50	Widneyver Tuz	` ' '	<u> </u>
14.50-15.15	Muharrem Tuncay Gencoglu	time fractional derivative	ear model of interpersonal Relationships with
14.50-15.15			Toobniques: Modeling Analysis and
15.15-15.40	Arthur Cave	Computational Methods	n Techniques: Modeling, Analysis and
10.10 10.40	, a and a cave	Comparational Metriode	
Room C21	S2: Clifford algebras, Clifford	analysis and their applications	
	Chair: Helmut Malonek	антуска шта шта арристи	
14.00-14.25	Fernando Miranda	Quaternionic polynomials with mult	iple zeros: a numerical point of view
14.25-14.50	Caterina Stoppato		ular functions over alternative *-algebras
14.50-15.15	Joao Morais		eory linked with the Zernike spherical polynomia
Dager 004			
ROOM CUT	S7: Inverse Problems: Theory	S7: Inverse Problems: Theory and Application to Science and Engineering	
ROOM CU1	S7: Inverse Problems: Theory Chair: Herb Kunze	and Application to Science and Er	gineering
	Chair: Herb Kunze		
14.00-14.25	Chair: Herb Kunze Davide La Torre	Total Variation Minimization for Me	asure-valued Images
14.00-14.25 14.25-14.50	Chair: Herb Kunze Davide La Torre Carly Bobak	Total Variation Minimization for Me An inverse problem for a mathema	asure-valued Images tical model of aquaponic agriculture.
14.00-14.25 14.25-14.50	Chair: Herb Kunze Davide La Torre	Total Variation Minimization for Me An inverse problem for a mathema Signal processing with Circle Inver	asure-valued Images tical model of aquaponic agriculture. sion Map Systems
14.00-14.25 14.25-14.50 14.50-15.15	Chair: Herb Kunze Davide La Torre Carly Bobak	Total Variation Minimization for Me An inverse problem for a mathema Signal processing with Circle Inver	asure-valued Images tical model of aquaponic agriculture.
14.00-14.25 14.25-14.50 14.50-15.15	Chair: Herb Kunze Davide La Torre Carly Bobak Bryson Boreland	Total Variation Minimization for Me An inverse problem for a mathema Signal processing with Circle Inver Collage-based Approaches for Ellip	asure-valued Images tical model of aquaponic agriculture. sion Map Systems
14.00-14.25 14.25-14.50 14.50-15.15	Chair: Herb Kunze Davide La Torre Carly Bobak Bryson Boreland	Total Variation Minimization for Me An inverse problem for a mathema Signal processing with Circle Inver Collage-based Approaches for Ellip	asure-valued Images tical model of aquaponic agriculture. sion Map Systems
14.00-14.25 14.25-14.50 14.50-15.15 15.15-15.40	Chair: Herb Kunze Davide La Torre Carly Bobak Bryson Boreland Michael Yodzis	Total Variation Minimization for Me An inverse problem for a mathema Signal processing with Circle Inver Collage-based Approaches for Ellip	asure-valued Images tical model of aquaponic agriculture. sion Map Systems
14.00-14.25 14.25-14.50 14.50-15.15 15.15-15.40	Chair: Herb Kunze Davide La Torre Carly Bobak Bryson Boreland Michael Yodzis	Total Variation Minimization for Me An inverse problem for a mathema Signal processing with Circle Inver Collage-based Approaches for Ellip Problems	asure-valued Images tical model of aquaponic agriculture. sion Map Systems
14.00-14.25 14.25-14.50 14.50-15.15 15.15-15.40 Room C02	Chair: Herb Kunze Davide La Torre Carly Bobak Bryson Boreland Michael Yodzis S19: Wavelets Analysis, Fract	Total Variation Minimization for Me An inverse problem for a mathema Signal processing with Circle Inver Collage-based Approaches for Ellip Problems tional Advances and Applications Ilgacem	asure-valued Images tical model of aquaponic agriculture. sion Map Systems otic Partial Differential Equations Inverse
Room C01 14.00-14.25 14.25-14.50 14.50-15.15 15.15-15.40 Room C02 14.00-14.25 14.25-14.50	Chair: Herb Kunze Davide La Torre Carly Bobak Bryson Boreland Michael Yodzis S19: Wavelets Analysis, Fract Chair: Fethi Bin Muhammad Belgacem	Total Variation Minimization for Me An inverse problem for a mathema Signal processing with Circle Inver Collage-based Approaches for Ellip Problems tional Advances and Applications Ilgacem Sumudu transform of Dumont bimo	asure-valued Images tical model of aquaponic agriculture. sion Map Systems otic Partial Differential Equations Inverse
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