

Modeling and numerical analysis

26.05.2021- -ROOM A Modeling and numerical analysis			GOOGLE MEET	
09:00- 13:45	Chair: Hamour Boussad			
	Hour	Activity Name	Title	
	9:00-09:15	Sofiane Dehilis	A Compact Fourth Order Finite Difference Scheme for the Diffusion Equation with Nonlinear Nonlocal Boundary Conditions	dehilissofiane@yahoo.fr
	9:15-09:30	Souheyla Zelmat	A DISCRETISED APPROACH FOR A PDE-CONSTRAINED BI-OBJECTIVE OPTIMAL CONTROL PROBLEM	zelmatsouheyla@gmail.com
	9:30-09:45	Akram Boukabache	A finite volume method for the Darcy problem	a.boukabache@ens-setif.dz
	9:45-10:00	Tedjani Hadj Ammar	A frictional contact problem between two piezoelectric bodies with normal compliance condition and adhesion	hadjammar-tedjani@univ-eloued.dz
	10:00-10:15	Raouf Ziadi	A limited-memory quasi-Newton algorithm for global optimization via Stochastic Perturbation	ziadi.raouf@gmail.com
	10:15-10:30	Soraya Chaghoub	A logarithmic barrier method via approximate functions for convex quadratic programming	chaghoubSORAYA@yahoo.fr
	10:30-10:45	Bouchaib Khajji	A multi-region discrete time mathematical modeling of the dynamics of Covid-19 virus propagation using optimal control	khajjibouchaib@gmail.com
	10:45-11:00	Saadi Achour	A New Decomposition Approach by Eigenvalues for Application of Difference of Convex Functions Algorithm in Solving Quadratic Problems	saadi.achour@lagh-univ.dz
	11:00-11:15	PAUSE		
	11:15-11:30	Safa Guerdouh	A new kernel function based interior point algorithm for linear optimization	guerdouhsafa@gmail.com
	11:30-11:45	Mous Ilhem	A NUMERICAL SOLUTION FOR A COUPLING SYSTEM OF CONFORMABLE TIME-DERIVATIVE TWO DIMENSIONAL BURGERS' EQUATIONS	mousilhem@yahoo.fr
	11:45-12:00	Nadia Hazzam	A PRIMAL-DUAL INTERIOR POINT METHOD FOR HLCP BASED ON A CLASS OF PARAMETRIC KERNEL FUNCTIONS	nadia.hazzam@univ-setif.dz
	12:00-12:15	Rezzag Bara Rayhana	A priori and a posteriori error analysis for a hybrid formulation of a prestressed shell model	rihana.rezzag@gmail.com
	12:15-12:30	Nedjem Eddine Ramdani	A Taylor Collocation Method to Solve Integro-differential Equations of the second kind	nedjemeddine.ramdani@yahoo.com
	12:30-12:45	PAUSE		
	12:45-13:00	Somia Kamouche	ABOUT SPECTRAL APPROXIMATION OF THE GENERALIZED QUADRATIC SPECTRUM	soumia.kamouche@gmail.com
	13:00-13:15	Hadjer Zerimeche	Adaptive modified projective synchronization of different fractional-order chaotic systems with unknown parameters	hadjerzerimeche@gmail.com
	13:15-13:30	Imane Achour	ADOMIAN DECOMPOSITION METHODS FOR POPULATION BALANCE EQUATIONS	imane.achour@univ-biskra.dz
13:30-13:45	OMAR LANGUEUR	RESOLUTION DE L'EQUATION DE KLEIN GORDON EN PRESENCE D'UNPOTENTIEL SCALAIRE TRAPEZOÏDAL	gueuromar@gmail.com	

The First Online International Conference on Pure and Applied Mathematics
 Ouargla University, Algeria, May 26-27, 2021, Algeria time

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Modeling and numerical analysis

26.05.2021- -ROOM B Modeling and numerical analysis				GOOGLE MEET
10:00- 12:00	Chair: Abdelmalek Boussaad			Email
	Hour	Activity Name	Title	Email
	10:00-10:15	Boutheina Tair	Numerical solution of linear Fredholm integro-differential equations	tairboutheina2@gmail.com
	10:15-10:30	Azzeddine Bellour	Numerical solution of second order linear delay differential and integro-differential equations by using Taylor collocation method	bellourazze123@yahoo.com
	10:30-10:45	Abdelaziz Limam	On a viscoelastic wave equation of infinite memory coupled with acoustic boundary conditions	abdelaziz.limam@univ-msila.dz
	10:45-11:00	Souheyla Ouffa	On Computational and Numerical Simulations of the Riemann Problem for Two-Phase Flows Carbon Dioxide Mixtures	souheylaouffa11@gmail.com
	11:00-11:15	Ali Khalouta	On solutions of Bratu-type differential equations of fractional order	nadjibkh@yahoo.fr
	11:15-11:30	Messaouda Ban Attia	ON THE EXISTENCE OF A SOLUTION OF A NONLINEAR EVOLUTION DAM PROBLEM	benattiamessaouda1402@gmail.com
	11:30-11:45	Sana Karfes	ON THE MAXIMUM NUMBER OF LIMIT CYCLES OF A SECOND-ORDER DIFFERENTIAL EQUATION	sana.karfes@gmail.com
	11:45-12:00	Walid Remili	ON THE NUMERICAL SOLUTION OF FIRST ORDER HYPERBOLIC EQUATIONS ON SEMI-INFINITE DOMAINS	remiliwalidbrather@gmail.com

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26.05.2021-ROOM C Modeling and numerical analysis			GOOGLE MEET	
14:00-18:30	Chair : Abdelmalek Boussaad			Email
	Hour	Activity Name		Email
	14:00-14:15	Djeffal El Amir	An improving procedure of the interior projective algorithm for linear semidefinite optimization problems	l.djeffal@univ-batna2.dz
	14:15-14:30	Lakhdari Abdelghani	An iterative regularization method for an abstract ill-posed biparabolic problem	a.lakhdari@esti-annaba.dz
	14:30-14:45	Joanna Dib	ANALYSE OF A LOCAL PROJECTION FINITE ELEMENT STABILIZATION OF NAVIER-STOKES EQUATIONS	joannadib2022@yahoo.fr
	14:45-15:00	Abdelfatah Kouidere	Analysis and Optimal control of a mathematical modeling of the spread of African swine fever virus with a case study of South Korea and cost-effectiveness	abdelfatah.kouidere-etu@etu.univh2c.ma
	15:00-15:15	Abdelaziz Azeb Ahmed	Analysis of a electro-viscoelastic contact problem with wear and damage	aziz-azebahmed@univ-eloued.dz
	15:15-15:30	Tefaha Lejdel Ali	Analysis of fractional nonlinear oscillators	lajdelali92@gmail.com
	15:30-15:45	Assia Zazoua	Analysis of mathematical model of prostate cancer with androgen deprivation therapy	assia1@outlook.fr
	15:45-16:00	Maymanal Bounif	Analytical solution of two dimensional flow under a gate using the hodograph method	maymanal.bounif@univ-msila.dz
	16:00-16:15	Selma Bouzit	APPLICATION OF GENERALIZED MULTIQUADRIC METHOD FOR SOLVING ELLIPTIC PARTIAL DIFFERENTIAL EQUATIONS	selmabouzit34@gmail.com
	16:15-16:30	Ouaar Fatima	Application of Metaheuristics in Solving Initial Value Problems (IVPs)	fatimaouaar@yahoo.fr
	16:30-16:45	Saad Abdelkebir	Approach Solution For Fractional Differential Equation By Conformable Reduced Differential Transformation Method	saad.abdelkebir@univ-msila.dz
	16:45-17:00	Athmane Abdallaoui	Approximate impedance of a non planar thin layer in the framework of asymmetric elasticity	a.abdallaoui18@gmail.com
	17:00-17:15	Zeraibi Khalissa	Approximation in linéaire integro-differential equation	Zeraibi.khalissa@gmail.com
	17:15-17:30	Safia Meftah	Asymptotic Stability of Solutions for nonlinear Differential Equations	safia-meftah@univ-eloued.dz
	17:30-17:45	Asma Ladjeroud	Average optimal control with numerical analysis of Coronavirus	asma06ladjeroud@gmail.com
17:45-18:00	Bochra Belhadji	Blow-up phenomena for a viscoelastic wave equation with Balakrishnan-Taylor damping and logarithmic nonlinearity	bochrabelhadji@gmail.com	
18:00-18:15	SAFA CHOUAF	POSITIVE BOUNDED SOLUTIONS FOR A FUNCTIONAL DIFFERENTIAL EQUATION WITH AN ITERATIVE SOURCE TERM	safachouaf10@gmail.com	
18:15-18:30	Noui Djaidja	Approximation method for Volterra integral equation of the first kind.	noui.djaidja@univ-msila.dz	

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26.05.2021- -ROOM D Modeling and numerical analysis				GOOGLE MEET
16:00- 18:45	Chair: Brahim Tellab			Email
	Hour	Activity Name	Title	Email
	16:00- 16:15	Bouremani Touffik	On the Solution of a Control Problem of a vaccine-controlled Epidemic	bouremani@yahoo.com
	16:15- 16:30	Abdelkadir Soudani	Optimization of a PDE Problem and Application	soudaniabdelkadir@yahoo.com
	16:30- 16:45	Chadia Faghmous	Quadratic decomposition of 2-orthogonal polynomials sequences	chfaghmous21@gmail.com
	16:45- 17:00	Salima Azouz	Some Results on the Asymptotic Behaviour of some Anisotropic Singular Perturbation Problems	salima.azouz.mathematics@gmail.com
	17:00- 17:15	Nouar Chorfi	Stability analysis and optimal control of a fractional-order Modified HIV/AIDS model	nouar.chorfi@univ-tebessa.dz
	17:15- 17:30	PAUSE		
	17:30- 17:45	Saadia Benbernou	STABILITY PROBLEM FOR AN EPIDEMIOLOGICAL MODEL (COVID-19)	saadia.benbernou.etu@univ-mosta.dz
	17:45- 18:00	Samir Ladaci	Stabilization of fractional order chaotic modified Chua system using a state feedback controller	samir_ladaci@yahoo.fr
	18:00- 18:15	Takouk Dalila	STATIONARY AND NON STATIONARY APPROXIMATIONS BY RBFS FOR SOLVING INTEGRAL AND PARTIAL DIFFERENTIAL EQUATIONS	takoukdalila72@gmail.com
	18:15- 18:30	Abdelouahab Boureghda	Numerical Study of Guided Modes Propagation in Quad-Core Fiber	boureghda@ens-kouba.dz
	18:30- 18:45	Lakhlifa Sadek	The numerical solution of large-scale differential T-Riccati matrix equations	lakhlifasadek@gmail.com
	18:45- 19:00	Bouzoualegh Ikram	The numerical analysis of Schwarz algorithm for a class of elliptic quasi variational inequalities	ikrambouzoualegh1551993@gmail.com

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09:00- 14:30	Chair: Abdelmalek Boussaad			
	Hour	Activity Name	Title	Email
	9:00-09:15	Mohammed Said Souid	EXISTENCE OF SOLUTIONS FOR NONLINEAR HILFER-KATUGAMPOLA FRACTIONAL DIFFERENTIAL INCLUSIONS	souimed2008@yahoo.com
	9:15-09:30	Hadj Kaddour Tayeb	Blow-up results for fractional damped wave equations with nonlinear memory	hktn2000@yahoo.fr
	9:30-09:45	Amina Faraoun	Calculating the H infinity norm for a new class of fractional state space systems	amina.faraoun.etu@univ-mosta.dz
	9:45-10:00	Rachid Bouajaji	Contrôle optimal d'un modèle mathématique du Covid19: Cas discret	bouajajirachid@gmail.com
	10:00-10:15	Nidal Dib	CONVERGENCE OF FINITE VOLUME MONOTONE SCHEMES FOR STOCHASTIC GENERALIZED BURGERS EQUATION ON A BOUNDED DOMAINS	Dib_Nidal@yahoo.com
	10:15-10:30	NADIA MOHDEB	QUALITATIVE ANALYSIS OF AN EPIDEMIC MODEL WITH NONLINEAR INCIDENCE RATE IN THE TIME OF COVID-19	nadia.mohdeb@univ-bejaia.dz
	10:30-10:45	ABDERREZAK KASRI	SLIP DEPENDENT FRICTION IN QUASISTATIC VISCOPLASTICITY	kariabdezak@gmail.com
	10:45-11:00	Samia Khelladi	Etude comparative entre deux méthodes hybrides du gradient conjugué avec recherche linéaire inexacte	samia.boukaroura@univ-setif.dz
	11:00-11:15	PAUSE		
	11:15-11:30	Naaima Latioui	Existence and Uniqueness for a system of Klein-Gordon Equations	loubnalatioui@gmail.com
	11:30-11:45	Smail Kaouache	Existence du hyperchaos dans un nouveau système de Rabinovich d'ordre fractionnaire avec un seul terme non linéaire	smailkaouache@gmail.com
	11:45-12:00	Khaoula Saffidine	Existence Result of Positive Solution for a Degenerate parabolic System via a Method of Upper and Lower Solutions	khaoulasaffidine1994@gmail.com
	12:00-12:15	Fatima Zohra Sidi Ali	Feedback boundary stabilization of the Schrödinger equation with interior delay	f.sidiali@univ-batna2.dz
	12:15-12:30	Kaouther Bouchama	Fractional differential equations of Caputo-Hadamard type and numerical solutions	kaouther.bouchama@univ-msila.dz
	12:30-12:45	Abdelkader Laiadi	Free surface flows over a two obstacles by using series method	laiadhi_a@yahoo.fr
	12:45-13:00	Nouria Arar	Galerkin Approximation of the Diffusion-Reaction Equation by cubic B-Splines	nour.arar@yahoo.fr
	13:00-13:15	PAUSE		
	13:15-13:30	Noura Louzzani	Chaotic behavior in the product of generating functions	nlouzzani@gmail.com
13:30-13:45	Chaima Bekhdidja	Euler approximation for stochastic differential equation driven by Brownian motion	chaima9maths@gmail.com	
13:45-14:00	Radia Touhami	Stochastic differential equation driven by fractional Brownian motion with Hurst parameter $H > 1/2$ and Young integral	Touhamiradia30@gmail.com	
14:00-14:15	Hayet Djeghal	Galerkin Approximation for some elliptic partial differential equations-Stochastic case	hayetdjeghal@gmail.com	
14:15-14:30	Hana Bechoua	Stochastic differential equation perturbed by Poisson Noise	Hanabechoua11@gmail.com	

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14:00- 18:45	Chair: Smail Merabet			
	Hour	Activity Name	Title	
	Email			
	14:00-14:15	Mounir Redjouh	GLOBAL EXISTENCE OF WEAK SOLUTIONS FOR 2 X 2 PARABOLIC FULL REACTION-DIFFUSION SYSTEMS APPLIED TO A CLIMATE MODEL	redjouhmounir@gmail.com
	14:15-14:30	Bouaziz Khelifa	Global stability of COVID-19 epidemic model	khalifa.bouaziz@univ-tebessa.dz
	14:30-14:45	Hanane Kessal	History-dependent hyperbolic variational inequalities with applications to contact mechanics	hanane9403@gmail.com
	14:45-15:00	Marwa Legougui	JUSTIFICATION OF THE TWO-DIMENSIONAL EQUATIONS OF VON KARMAN SHELLS	legouguimarwa@gmail.com
	15:00-15:15	Benchettah Djaber Chemseddine	L^∞ -ASYMPTOTIC BEHAVIOR OF A FINITE ELEMENT METHOD FOR A SYSTEM OF PARABOLIC QUASI-VARIATIONAL INEQUALITIES WITH NONLINEAR SOURCE TERMS	benchettah.djaber@essg-annaba.dz
	15:15-15:30	Guettal Djaouida	LIPSCHITZ GLOBAL OPTIMIZATION PROBLEM AND α -DENSE CURVES	djaouida.guettal@univ-setif.dz
	15:30-15:45	Abir Radjai	MAPPED LEGENDRE SPECTRAL METHODS FOR SOLVING A QUADRATIC HAMMERSTIEN INTEGRAL EQUATION ON THE HALF LINE	abir.radjai@univ-bba.dz
	15:45-16:00	Khezzani Rimi	Mathematical analysis of a dynamic piezoelectric contact problem with friction	rimikhezzani39@gmail.com
	16:00-16:15	PAUSE		
	16:15-16:30	Driss Kada	MATHEMATICAL MODELING OF THE SPREAD OF COVID-19 AMONG DIFFERENT AGE GROUPS IN MOROCCO : Optimal Control Approach for Intervention Strategies	kadadriss.2022@gmail.com
	16:30-16:45	El Mehdi Moumine	Mathematical study aiming at adopting an effective strategy to coexist with coronavirus pandemic	mehdi199maths@gmail.com
	16:45-17:00	Kecies Mohamed	Méthode de Halley dans un espace ultramétrique	m.kecies@centre-univ-mila.dz
	17:00-17:15	Nour Imane Benaouad	NEW RESULTS ON THE CONFORMABLE FRACTIONAL ELZAKI TRANSFORM	nourimane.benaouad@univ-mosta.dz
	17:15-17:30	Nourhane Attia	Numerical solution for fractional odes via reproducing kernel Hilbert space method: application to a biological system	n.attia@univ-boumerdes.dz
17:30-17:45	Khedidja Kherchouche	Numerical solution of a class of weakly singular Volterra integral equations by using an iterative collocation method	kherchouchekhedidja@gmail.com	
PAUSE				
17:45-18:00	Mohammed Essaid Belouafi	Uniform Convergence of Multigrid Methods for Variational Inequalities	gogoo.said@gmail.com	
18:00-18:15	Sakina Khenfer	Uzawa methods for a linear system with double saddle point structure arising in shell theory	sokinakhenfer@gmail.com	
18:15-18:30	Rebiha Benterki	The Limit cycles of two classes of continuous piecewise cubic differential systems separated by a straight line	r.benterki@univ-bba.dz	
18:30-18:45	Meskine Naima	STUDY ON HOPF BIFURCATION FOR COMPRESSION QUASI-LINEAR SYSTEM	n.meskine@univ-boumerdes.dz	