Liste des productions scientifiques (publications, communications,…)
Année 2022

Etablissement Universitaire: Université 8 Mai 1945 de Guelma
Faculté: Mathématique, Informatique et Sciences de la Matière
Laboratoire de Mathématiques Appliquée et de Modélisation -LMAM-

	Productions Scientifiques 2022							
	Publications							
	Titre	Auteurs	Revue	Année	Catégorie de la revue:A+ , A , B-Scopus, B-non Scopus, non classée	Volume	Page	URL
Publications internationales	Analysis of a nonlinear Volterra-Fredholm integro-differential equation	MZ Aissaoui, MC Bounaya, H Guebbai	Quaestiones Mathematicae	2022		45	307-325	https://www.tandfonline.com/doi/abs/10.2989/16073606.2020.1858991
	Investigation approach for a nonlinear singular Fredholm integro-differential equation	Sami Touati, Mohamed-Zine AISSAOUI, Samir Lemita, Hamza Guebbai	Boletim da Sociedade Paranaense de Matemática	2022	B	40	p1-11	https://periodicos.uem.br/ojs/index.php/BSocParanMat/article/view/46898

Publications internationales	*Solution of an integro-differential nonlinear equation of Volterra arising of earthquake model*	*Selma Salah, Hamza Guebbai, Samir Lemita, Mohamed Zine Aissaoui*	*Boletim da Sociedade Paranaense de Matemática*	*2022*	*B*	*40*	*p1-14*	*https://periodicos.uem.br/ojs/index.php/BSocParanMat/article/view/48018*
	On the mixed nonlinear integro-differential equations with weakly singular kernel	*Belhireche. H, Guebbai.H*	*Computational and Applied Mathematics*	*2022*		*41*	*17p*	*https://link.springer.com/article/10.1007/s40314-021-01743-9*
	On the Solution of Evolution p (.) -Bilaplace Equation with Variable Exponent	*Abderrazek Chaoui, Djaghout Manal*	*Boletim da Sociedade Paranaense de Matematica*	*2022*	*B*	*41*	*1 - 14*	*http://dx.doi.org/10.5269/bspm.62640*
	On Discretization of the Evolution p-Bi-Laplace Equation	*Djaghout Manal, Abderrazek Chaoui, Khaled Zennir*	*Numerical Analysis and Applications*	*2022*	*B*	*15*	*303 315*	*http://dx.doi.org/10.1134/S1995423922040036*
	Solution to Fractional Integro-differential Equation with Unknown Flux on the Dirichlet Boundary	*Amel Labadla, Abderrazek Chaoui, Djaghout Manal*	*Discontinuity, Nonlinearity, and Complexity*	*2022*	*B*	*11*	*723 734*	*http://dx.doi.org/10.5890/DNC.2022.12.010*
	Full discretization to an hyperbolic equation with nonlocal coefficient	*Djaghout Manal, Abderrazek Chaoui, Khaled Zennir*	*Boletim da Sociedade Paranaense de Matematica*	*2022*	*B*	*40*	*1 19*	*http://dx.doi.org/10.5269/bspm.46032*

Publications internationales	DISCRETIZATION SCHEME OF FRACTIONAL PARABOLIC EQUATION WITH NONLOCAL COEFFICIENT AND UNKNOWN FLUX ON THE DIRICHLET BOUNDARY	Labadla Amel, Abderrazek Chaoui	Dynamics of Continuous, Discrete and Impulsive Systems Series B: Applications and Algorithms	2022	B	29	63 76	/
	Destruction of+C25:L25 solutions for class of wave p (x)- bi-Laplace equation with nonlinear dissipation	Khaled Zennir, Abderrahmane Beniani, Belhadji Bochra, Loay Alkhalifa	AIMS Mathematics	2022	Khaled Zennir,+C25:L25 Abderrahmane Beniani, Belhadji Bochra, Loay Alkhalifa	8	285-294	http://www.aimspress.com/journal/Math
	Existence and Stability results of the solution for nonlinear fractional differential problem	Abdellouahab Naimi, Brahim Tellab, Khaled Zennir	Boletim da Sociedade Paranaense de Matematica	2022	B	41	1 13	http://dx.doi.org/10.5269/bspm.52043

Publications internationales	*Three methods to solve two classes of integral equations of the second kind*	*Hassna Chebbah, Abdelaziz Mennouni, Khaled Zennir*	*Boletim da Sociedade Paranaense de Matemática*	*2022*	*B*	*40*	*1-8*	*https://doi.org/10.5269/bspm.46315*
	A New Topological Approach to Target the Existence of Solutions for Nonlinear Fractional Impulsive Wave Equations	*Svetlin G. Georgiev, Bouhali Keltoum, Khaled Zennir*	*axioms*	*2022*	*A*	*11*	*721*	*http://dx.doi.org/10.3390/axioms11120721*
	Novel positive solutions for a class of IBVP for nonlinear parabolic equations	*Abdelhak Berkane, Svetlin Georgiev, Khaled Zennir*	*Dynamics of Continuous, Discrete and Impulsive Systems Series A: Mathematical Analysis*	*2022*	*A*	*29*	*403 -417*	*/*
	Strict Decay Rate for System of Three Nonlinear Wave Equations Depending on the Relaxation Functions	*Hiba Abouatia, Amar Guesmia, Khaled Zennir*	*Journal of Applied Nonlinear Dynamics*	*2022*	*B*	*11*	*309-321*	
	Destruction of solutions for class of wave p(x)-bi-Laplace equation with nonlinear dissipation	*Khaled Zennir, Abderrahmane Beniani, Bochra Belhadji, Loay Alkhalifa*	*AIMS Mathematics*	*2022*	*A*	*8*	*285 -294*	*http://dx.doi.org/10.3934/math.2023013*

Publications internationales	*A Novel Investigation of Non-Periodic Snap BVP in the G-Caputo Sense*	*Xiaofeng Wang, Berhail Amel, Tabouche Nora, Mohammed M Matar, Mohammad Esmael Samei, Mohammed K A Kaabar, Xiao-Guang Yue*	*Axioms*	*2022*	*A*	*11*	*390*	*http://dx.doi.org/10.1186/s13662-022-03716-6*
	Using the Hilfer-Katugampola fractional derivative in initial-value Mathieu fractional differential equations with application to a particle in the plane	*Amel Berhail, Tabouche Nora, Jehad Alzabut, Mohammad Esmael Samei*	*Advances in Continuous and Discrete Models*	*2022*	*B*	*2022*	*44*	*http://dx.doi.org/10.1186/s13662-022-03716-6*
	Nineteen Limit Cycles In Discontinuous Quartic Differential System With Two Zones	*Meryem Bey, Sabrina Badi, Khairedine Fernane*	*Applied Mathematics E-Notes*	*2022*	*B*	*22*	*32 - 45*	*~ http://www.math.nthu.edu.tw/ amen/*

Publications internationales	*Existence Results for Fractional Differential Equations Under Weak Topology Features*	*Aref Jeribi, Hallaci Ahmed , Bilel Mefteh*	*Pan-American Journal of Mathematics*	*2022*	*B*	*1*	*14*	*http://dx.doi.org/10.28919/cpr-pajm/1-14*
	Existence and uniqueness solution for integral boundary value problem of fractional differential equation	*Lilia Zenkoufi*	*New Trends in Mathematical Sciences*	*2022*	*B*	*10*	*90 - 94*	*http://dx.doi.org/10.20852/ntmsci.2022.469*
	Dual Simpson Type Inequalities for Functions Whose Absolute Value of the First Derivatives are Preinvex	*Tarek CHİHEB, Badreddine MEFTAH, DİH Amel*	*Konuralp Journal of Mathematics*	*2022*	*B*	*10*	*73- 78*	*/*
	Generalized iterative scheme for a generalized spectral problem	*Ammar Khellaf, Guebbai, H., Merchela, W., Aissaoui, M. Z.*	*International Journal of Nonlinear Analysis and Applications.*	*2022*	*B*			*10.22075/IJNAA.2022.24614.2782*

Publications internationales	*New theoretical conditions for solving functional nonlinear equations by linearization then discretization*	*Ammar Khellaf, Mohamed Zine Aissaoui*	*The International Journal of Nonlinear Analysis and Applications (IJNAA)*	*2022*	*B*	*13*	*2857-2869*	*http://dx.doi.org/10.22075/ijnaa.2022.24699.2800*
	Some local fractional Maclaurin type inequalities for generalized convex functions and their applications	*Badreddine Meftah; Abdourazek Souahi; Merad Meriem*	*Chaos Solitons & Fractals*	*2022*	*A*	*162*	*112504*	*https://doi.org/10.1016/j.chaos.2022.112504*
	The approximate solution of nonlinear Fredholm implicit integro-differential equation in the complex plane	*Samir Lemita, Sami Touati, Kheireddine Derbal*	*Asian-European Journal of Mathematics*	*2022*	*B*	*15(7)*		*https://www.worldscientific.com/doi/abs/10.1142/S1793557122501315*
	Fractional Hermite-Hadamard type inequalities for functions whose mixed derivatives are co-ordinated -convex	*Meryem Benssaad; Badreddine Meftah; Sarra Ghomrani; Wahida Kaidouchi*	*International Journal of Nonlinear Analysis and Applications*	*2022*	*B*	*13*	*159-171*	*https://doi.org/10.22075/ijnaa.2021.24260.2705*
	Fixed point of four maps in generalized b-metric spaces	*Bazine Safia*	*Int. J. Nonlinear Anal. Appl*	*2022*	*B-scopus*	*13*	*2723-2730*	*https://ijnaa.semnan.ac.ir/article_5978.html*

Publications internationales	*Construction of the generalized iterative methods used for solution of the Fredholm integral equation*	*Boukansous, S., Mande, X., Tair, B., Guebbai, H*	*Numerical Methods and Programming (Vychislitel'nye Metody i Programmirovanie),*	*2022*	*B*	*23*	*p. 350-364*	*https://en.num-meth.ru/index.php/journal/article/view/1240*
	Two numerical treatments for solving the linear integro-differential Fredholm equation with a weakly singular kernel	*Boutheina Tair, Sami Segni, Hamza Guebbai Mourad Ghiat*	*ВЫЧИСЛИТЕЛЬНЫЕ МЕТОДЫ И ПРОГРАММИРОВАНИЕ / NUMERICAL METHODS AND PROGRAMMING*	*2022*	*B*	*23 (2)*	*p 117-136.*	*10.26089/NumMet.v23r208*
	New convergence mode for the generalized spectrum approximation	*Soumia Kamouche, Hamza Guebbai*	*Numerical Analysis and Applications*	*2022*	*B*	*15(4)*	*p336-342.*	*https://link.springer.com/article/10.1134/S1995423922040061*
	An approximation solution of linear Fredholm integro-differential equation using collocation and Kantorovich methods.	*Tair Boutheina; Guebbai Hamza; Segni Sami; Ghiat Mourad*	*Journal of Applied Mathematics and Computing*			*68*	*P 3505-3525*	*https://link.springer.com/article/10.1007/s12190-021-01654-2*
	The Kantorovich projection method in the generalized quadratic spectrum approximation.	*Kamouche, S., Guebbai, H., Ghiat, M., Kurulay, M.*	*Numerical Methods and Programming (Vychislitel'nye Metody i Programmirovanie),*	*2022*	*B*	*23*	*p240-247*	*https://en.new.num-meth.ru/index.php/journal/article/view/1229*

Publications internationales	*Linearization-Discretization process to solve systems of nonlinear Fredholm integral equations in an infinite-dimensional context*	*Sedka Ilyes; Samir Lemita; Mohamed Zine Aissaoui*	*Advances in the Theory of Nonlinear Analysis and its Application*	*2022*	*B*	*6*	*547-564*	*https://doi.org/10.31197/atnaa.998275*
	Galerkin-Wavelets Chebyshev to Solve Nonlinear Fredholm Integro-Differential Equations	*Youcef Henka, Samir Lemita*	*Sixth International Conference on Analysis and Applied Mathematics*	*2022*			*90*	*http://icaam-online.org/Abstractbook.pdf#page=90*
	Numerical study for a second order Fredholm integro-differential equation by applying Galerkin-Chebyshev-wavelets method	*Youcef Henka; Samir Lemita; Mohamed Aissaoui*	*Journal of Applied Mathematics and Computational Mechanics*	*2022*	*B*	*21*	*28-39*	*http://dx.doi.org/10.17512/jamcm.2022.4.03*
	CONTROLLABILITY RESULTS FOR SOBOLEV TYPE ψ−HILFER FRACTIONAL BACKWARD PERTURBED INTEGRO-DIFFERENTIAL EQUATIONS IN HILBERT SPACE	*Ichrak Bouacida, Mourad Kerboua, Sami Segni*	*Evolution Equations and Control Theory*	*2022*	*A*	*12*	*213-229*	*http://dx.doi.org/10.3934/eect.2022028*

	Productions Scientifiques 2022							
	Communications							
	Titre	Auteurs	Intitulé de manifestation	Année	Proceeding de la conférence indexé dans Scopus (oui /non)	Volume	Page	URL
Communications nationales	Study of nonlinear Volterra-Fredholm equations system	Belhireche Hanane	6th International Workshop on Applied Mathematics and Modeling "WIMAM'2022"	2022	non			
	Common fixed point theorems for several functions in generalized b-metric spaces	Bazine Safia	6th International Workshop on Applied Mathematics and Modeling "WIMAM'2022"	2022	non			
	Numerical solution of liner fredholm integro-differential equation with weakly singular kernel, International Congress on Fundamental and Applied Sciences.	Boutheina TAIR	Third National Mathematics Seminar, Université Constantine 1	2022	Non			

Communications nationales	*7. Numerical solution of the non-linear Volterra integral equation of the first kind*	*Boutheina TAIR*	*Nouvelles Tendances en Mathématiques Théoriques et Computationnelles, Université Tamangheset*	*2022*	*Non*			
	Using projection methods to solve linear Fredholm intgro-differential Equation	*Boutheina TAIR*	*The Second National Conference on Mathematics and its Applications (2nd SCNMA 2022).*	*2022*	*Non*			
	An adaptive version of the conjugate gradient parameter β CD k using the Newton direction for unconstrained optimization	*Naima HAMEL Noureddine BENRABIA Mourad GHIAT Hamza GUEBBAI*	*The Second National Conference on Mathematics and its Applications (2nd SCNMA 2022) September 17-18, Bordj Bou Arréridj, Algeria*	*2022*				
	A modified Conjugate Gradient method based on the Newton direction for solving unconstrained optimization problems	*Naima HAMEL Noureddine BENRABIA Mourad GHIAT Hamza GUEBBAI*	*Third National Mathematics Seminar 2022 , Brothers Mentouri University of Constantine Algeria*	*2022*				

Communications nationales	*General Newton method for solving systems of nonlinear Fredholm integral equations*	*Ilyes SEDKA, Samir LEMITA, Mohamed Zinne AISSAOUI*	*3rd National Seminaire of Mathematics, Mentouri University Constantine 1, Algeria*	*2022*	*non*			
	High-order hyperbolic equation :theoretical and numerical studies	*Khalfallaoui Roumaissa*	*Third National Mathematics seminar 2022, Costantine 1-Algeria*	*2022*				
	Solving Nonlinear Fredholm Integro-Differential Equations By Using Legender's Wavelets	*Youcef Henka*	*The Second National Conference on Mathematics and its Applications*	*2022*	*Non*			
	The Second Kind of Chebyshev Polynomials to Solve Intrgro-Differential Equations with Weakly Singular Kernels	*Youcef Henka*	*Rencontre Nationale sur les Mathématiques Appliquées*	*2022*	*Non*			
	SOLVING FRACTIONAL NONLINEAR INTEGRO-DIFFERENTIAL EQUATIONS BY USING HERMITE WAVELETS	*Youcef Henka*	*THE SECOND NATIONAL CONFERENCE ON PURE AND APPLIED MATHEMATICS*	*2022*	*Non*			

Communications internationales	*Rencontre Algéro-Tunisienne de Dynamique Symbolique*	*Djenaoui Saliha*	*Université de Bejaia*	*2022*	*Non*			
	Collocation and Kantorovich methods for solving linear integro-differential equation	*Boutheina TAIR*	*6th INTERNATIONAL CONFERENCE ON MATHEMATICS, Istanbul*	*2022*	*Oui*			
	Using generalized Jacobi method to solve linear Fredholm integro-differential equation	*Boutheina TAIR*	*6th International Workshop on Applied Mathematics and Modeling "WIMAM'2022*	*2022*	*Oui*			
	MODELISATION ASYMPTOTIQUE DES PROBLEMES D'EVOLUTIONS PAR LES DERIVEES FRACTIONNAIRES CONFORMES	*Mohamed Lamine MERIKHI*	*6th International Workshop on Applied Mathématics and Modelling*	*2022*				
	MODELISATION ASYMPTOTIQUE DES PROBLEMES D'EVOLUTIONS PAR LES DERIVEES FRACTIONNAIRES CONFORMES	*Mohamed Lamine MERIKHI*	*2nd International Seminar on Industrial Engineering and Applied Mathematics*	*2022*				

Communications internationales	*A new conjugate gradient method as a modified Conjugate Descent method using the Newton direction for unconstrained optimization*	*Naima HAMEL Noureddine BENRABIA Mourad GHIAT Hamza GUEBBAI*	*6th INTERNATIONAL HYBRID CONFERENCE ON MATHEMATICS "An Istanbul Meeting for World Mathematicians" 21-24 June 2022, Istanbul, Turkey*	*2022*				
	A convex combination between two di erent descent directions of conjugate gradient method using the Newton direction for unconstrained optimization	*Naima HAMEL Noureddine BENRABIA Mourad GHIAT Hamza GUEBBAI*	*6ème Workshop International sur les Mathématiques Appliquées et la Modélisation « WIMAM'2022»*	*2022*				
	Employing Newton's method to modify the CD-conjugate gradient method for unconstrained optimization	*Naima HAMEL Noureddine BENRABIA Mourad GHIAT Hamza GUEBBAI*	*INTERNATIONAL CONFERENCE ON MATHEMATICS APPLIED IN LIFE SCIENCES, June 23-24, 2022, Iași, Romania*	*2022*				
	Linearizing then discretizing by Kantorovich projection or by Nystrom process for solve nonlinear integral equations " What is the better process "	*Ilyes SEDKA, Samir LEMITA, Mohamed Zinne AISSAOUI*	*6th INTERNATIONAL CONFERENCE ON MATHEMATICS, ISTANBUL, TURKEY*	*2022*	*non*			

Communications internationales	*The Inverse Version Of Classical Methods To Solve Systems Of Nonlinear Integro-Differential Equations*	*Ilyes SEDKA, Samir LEMITA, Mohamed Zinne AISSAOUI*	*COMPUTATIONAL METHODS IN SCIENCES AND ENGINEERING (CMSE-2022), India*	*2022*	*non*			
	New scheme to solve systems of nonlinear integral equations by linearizing first then discretizing	*Ilyes SEDKA, Mohamed Zinne AISSAOUI*	*INTERNATIONAL E-CONFERENCE ON PURE AND APPLIED MATHEMATICAL SCIENCES (ICPAMS-2022), Tunisia*	*2022*	*non*			
	Unlike classical processes, linearizing first, then discretizing is the better process to solve systems of nonlinear integral equations	*Ilyes SEDKA, Ammar KHELLAF, Mohamed Zinne AISSAOUI*	*1st International Symposium on Current Developments in Fundamental and Applied Mathematics Sciences (ISCDFAMS 2022), Turkey*	*2022*	*non*			
	(C-L-D) New Approach for Regular and Weak Singular Mixed System of Integro-Differential Equations	*Ilyes SEDKA, Ammar KHELLAF, Mohamed Zinne AISSAOUI*	*6th International Workshop on Applied Mathematics and Modelling « WIMAM'2022 », Guelma, Algeria*	*2022*	*non*			

Communications internationales	*High-order hyperbolic equation with variable exponent*	*Khalfallaoui Roumaissa*	*6th international conference on mathematics, 2022, Istanbul, Turkey*	*2022*				
	Hyperbolic equation with p(x)-Laplacian: theoretical and numerical studies	*khalfallaoui Roumaissa*	*6th international workshop on Applied Mathematics and Modelling, 2022, Guelma, Algeria*	*2022*				
	Applying Projection Methods to solve Nonlinear Fredholm Integro-Differential Equations	*Youcef Henka*	*Partial Differential Equations and Related Topics*	*2022*	*Non*			
	Applying wavelets method to approximate nonlinear Fredholm integro-differential equations	*Youcef Henka*	*6th INTERNATIONAL CONFERENCE ON MATHEMATICS*	*2022*	*Non*			

Communications internationales	*Chebyshev Polynomials of Second Kind to Approximate Nonlinear Singular Fredholm Integro-Differential Equations*	*Youcef Henka*	*International E-Conference on Mathematical and Statistical Science*	*2022*	*Non*			
	Galerkin-Wavelets Chebyshev to Solve Nonlinear Fredholm Integro-Differential Equations	*Youcef Henka*	*The Sixth International Conference on Analysis and Applied Mathematics ICAAM2022*	*2022*	*Non*			
	Numerical Study for a Second Order Nonlinear Fredholm Integro-Differential Equation by Applying Galerkin Method	*Youcef Henka*	*6th International Workshop on Applied Mathematics and Modelling « WIMAM'2022 »*	*2022*	*Non*			