

ICMA 2021

7 – 8 Dec 2021, Blida, ALGERIA

Program

| Time | 7th Dec 2021 | | 8th Dec 2021 | |
|-------------|----------------------------|-----------------------------|----------------------------|-----------------------------|
| 8:45 | Opening Ceremony | | | |
| 9:00 | | | | |
| 9:15 | | | Invited Talk 7 | Invited Talk 8 |
| 9:30 | | | | |
| 9:45 | Invited Talk 1 | | Invited Talk 9 | Invited Talk 10 |
| 10:00 | | | | |
| 10:15 | Coffee Break | | Parallel Session S5 | Parallel Session S6 |
| 10:30 | | | | |
| 10:45 | Invited Talk 2 | | | |
| 11:00 | Invited Talk 3 | | | |
| 11:15 | Invited Talk 4 | | | |
| 11:30 | | | | |
| 11:45 | | | | |
| 12:00 | | | | |
| 12:15 | Lunch | | Lunch | Lunch |
| 12:30 | | | | |
| 12:45 | | | | |
| 13:00 | | | | |
| 13:15 | Parallel Session S1 | Parallel Sessions S2 | Parallel Session S7 | Parallel Session S8 |
| 13:30 | | | | |
| 13:45 | | | | |
| 14:00 | | | | |
| 14:15 | | | | |
| 14:30 | | | | |
| 14:45 | | | | |
| 15:00 | | | | |
| 15:15 | Invited Talk 5 | Invited Talk 6 | Invited Talk 11 | Invited Talk 12 |
| 15:30 | | | | |
| 15:45 | Parallel Session S3 | Parallel Session S4 | Parallel Session S9 | Parallel Session S10 |
| 16:00 | | | | |
| 16:15 | | | | |
| 16:30 | | | | |
| 16:45 | | | | |
| 17:00 | | | | |
| 17:15 | | | | |
| 17:30 | | | | |
| 17:45 | | | Closing Ceremony | |
| 18:00 | | | | |

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Invited talks

| Date and Time | Speaker | Title |
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| T1. 7 Dec. 9.30 - 10.00 am | Prof. Taous Meriem Laleg, KAUST, KSA | Mathematical modeling of the arterial stiffness: solitons-based model versus fractional order model |
| T2. 7 Dec. 10.30 - 11.00 am | Prof. Frédéric Richard, Aix-Marseille Université, France | Anisotropic fractional Brownian fields: properties, simulation and estimation. |
| T3. 7 Dec. 11.00 - 11:30 am | Prof. Boualem Djehiche, KTH Royal Institute of Technology, Sweden | On a class of time-inconsistent optimal stopping problems |
| T4. 7 Dec. 11.30 - 12.00 am | Prof. Stefano De Marchi, University of Padova, Italy | Variably Scaled Discontinuous Kernels |
| T5. 7 Dec. 3.00 - 3.30 pm | Prof. Faouzia Rebbani, Ecole Supérieure de Technologies Industrielles ESTI Algeria | On some analytical and numerical aspects of some regularization methods applied to ill-posed problems in PDEs |
| T6. 7 Dec. 3.00 - 3.30 pm | Prof. Fatma Zohra Nouri, Badji Mokhtar - Annaba University, Algeria | Mathematical modeling of multiphase flows |
| T7. 8 Dec. 9.00 - 9.30 am | Prof. Mouffak Benchohra, Djillali Liabes University, Algeria | Semilinear Differential Equations: Existence, Stability and Controllability |
| T8. 8 Dec. 9.00 - 9.30 am | Prof. Samsul Ariffin B A Karim, Universiti Teknologi Petronas, Malaysia | Cubic B-Spline Approximation for Solving Linear Two-Point Boundary-Value Problems |
| T9. 8 Dec. 9.30 - 10.00 am | Prof. Chikh Bouzar, University of Oran, Algeria | Spaces of multi-anisotropic ultradifferentiable functions |
| T10. 8 Dec. 9.30 - 10.00 am | Prof. Amar Oukil, Sultan Qaboos university, Oman | Ranking frameworks based on the integration of Data Envelopment Analysis and Ordered Weighted Averaging |
| T11. 8 Dec. 3.00 - 3.30 pm | Prof. Dalila Azzam-Laouir, University of Jijel, Algeria | Differential inclusions governed by maximal monotone operators |
| T12. 8 Dec. 3.00 - 3.30 pm | Dr. Loqmane Seridi, Johnson & Johnson Co, USA | Gaining biological insights through mathematics |

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| Parallel Sessions | |
| Date: 07/12/ 2021 | |
| Parallel Session S1 | |
| 13:00 – 13:15 | Title: Study of some non-autonomous abstract problems of elliptic type in an unbounded domain Presenter: Boutaous Fatiha |
| 13:15 – 13:30 | Title: Common Fixed Point for Multivalued (ψ, θ, G) -Contraction Type Maps in Metric Spaces with a Graph Structure Presenter: Benchabane Saadia |
| 13:30 – 13:45 | Title: Existence, uniqueness and stability of solutions to a delay hematopoiesis model Presenter: Bouakkaz Ahlème |
| 13:45 – 14:00 | Title: Results in semi-E-convex functions Presenter: Ayache Benhadid |
| 14:00 – 14:15 | Title: A functional equation arising in dynamic programming via a generalized F- weak contractions of Hardy-Rogers. Presenter: Djamila Derouiche |
| 14:15 – 14:30 | Title: On the strongly mid p -summing operators and application Presenter: Ferradi Athmane |
| 14:30 – 14:45 | Title: A note on the influence of different additional regularity on the critical exponent Presenter: Khaldi Said |
| 14:45 – 15:00 | Title: Explicit limit cycle for class of multi-parameter polynomial differential system Presenter: Kina Abdelkrim |
| Parallel Session S2 | |
| 13:00 – 13:15 | Title: Adaptive estimates for parafima models Presenter: Amimour Amine |
| 13:15 – 13:30 | Title: Periodic Negative Binomial INGARCH(1,1) Model Presenter: Abderrahmen Manaa |
| 13:30 – 13:45 | Title: On generalized integer-valued GARCHX model with structural changes Presenter: Mohamed Djemaa Sadoun |
| 13:45 – 14:00 | Title: Existence and uniqueness of solution to G-neutral stochastic differential equations Presenter: Zakaria Boumezbeur |
| 14:00 – 14:15 | Title: The almost complete convergence of the high-risk point kernel functional conditional estimate for quasi-associated data Presenter: Hamza Daoudi |

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| 14:15 – 14:30 | Title: Multiplicative bias correction for inverse gamma and beta prime kernel density estimators Presenter: Harfouche Lynda |
| 14:30 – 14:45 | Title: Optimal Bandwidth selection in M-type estimate of the regression function in associated and left-truncated model Presenter: Asma Ghelien |
| 14:45 – 15:00 | Title: Probability Tail for Linearly Negative Quadrant Dependent Random Variables of Partial Sums and Application to Linear Model Presenter: Zoubeyr Kaddour |
| Parallel Session S3 | |
| 15:30 – 15:45 | Title: Nontrivial solution for quasilinear elliptic systems in divergence form Presenter: Lecheheb Samira |
| 15:45 – 16:00 | Title: Multiple solutions for nonhomogeneous nonlocal elliptic problems with singular potentiale Presenter: Matallah Atika |
| 16:00 – 16:15 | Title: On nonhomogeneous p-laplacian elliptic equations involving a critical Sobolev exponent and multiple Hardy-type terms Presenter: Messirdi Sofiane |
| 16:15 – 16:30 | Title: First order evolution inclusions governed by sweeping process in banach spaces Presenter: Selamnia Fatiha |
| 16:30 – 16:45 | Title: Lower and upper solutions for conformable fractional differential equations Presenter: Bendouma Bouharket |
| 16:45 – 17:00 | Title: Stability analysis for a generalized proportional fractional langevin equation with variable coefficient and mixed integro–differential boundary conditions Presenter: Boutiara Abdellatif |
| 17:00 – 17:15 | Title: Some existence results to positive solutions for p-Laplacian boundary value problems of fractional differential equations Presenter: Chabane Fraid |
| 17:15 – 17:30 | Title: Nonlocal conditions for fractional differential equations Presenter: Dib Fatima |
| 17:30 – 17:45 | Title: Existence of unique solution of a fractional wave equation with free boundary conditions Presenter: Djemiat Rabah |
| 17:45 – 18:00 | Title: Existence of random coupled system of fractional differential equations in generalized Banach space with retarded and advanced arguments Presenter: Fredj Fouad |
| Parallel Session S4 | |
| 15:30 – 15:45 | Title: i-packing and packing coloring of generalized Peterson graphs. Presenter: Daouya Laiche |
| 15:45 – 16:00 | Title: Graphs whose weak Roman domination number increases by the removal of any edge. Presenter: Rihab Hamid |

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| 16:00 – 16:15 | Title: The effect of edge lifting on Roman domination in graphs. Presenter: Hicham Meraimi |
| 16:15 – 16:30 | Title: Power contamination and domination on the grid. Presenter: Amina Ainouche |
| 16:30 – 16:45 | Title: Strong Incidence Colouring of Graphs Presenter: Brahim Benmedjdoub |
| 16:45 – 17:00 | Title: Equitable coloring and Scheduling on identical machines Presenter: Sarah Nouri |
| 17:00 – 17:15 | Title: The m-machine chain-reentrant flow shop with two competing agents Presenter: Nazim Sami |
| 17:15 – 17:30 | Title: Two-machine flow shop scheduling problem with two competing agents Presenter: Abdenmour Azerine |
| 17:30 – 17:45 | Title: Scheduling on batch processing machines with compatibility graphs Presenter: Khaoula Bouakaz |
| 17:45 – 18:00 | Title: Continuous global optimization using space-filling curve Presenter: Raouf Ziadi |

Date: 08/12/ 2021

Parallel Session S5

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| 10:00 – 10:15 | Title: Uniqueness and stability of parameter identification in elliptic boundary value problem Presenter: Benyoucef Abir |
| 10:15 – 10:30 | Title: Optimal decay for abstract second-order evolution equation with infinite memory and time-varying delay in Hilbert spaces. Presenter: Chellaoua Houria |
| 10:30 – 10:45 | Title: Second-order differential inclusion with sum of two perturbations Presenter: Imen Boutana |
| 10:45 – 10:00 | Title: Anisotropic degenerate parabolic problems in RN with variable exponent and locally integrable data Presenter: Mecheter Rabah |
| 10:45 – 11:15 | Title: On the geometric-weighted-variable Hardy spaces on Lipschitz domains Presenter: Melkemi Oussama |
| 11:15 – 11:30 | Title: Some weak invariance results for fractional differential inclusion Presenter: Omar Benniche |
| 11:30 – | Title: The lipschitz weakly p-nuclear operators and its injective hull |

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| 11:45 | Presenter: Tiaiba Toufik |
| 11:45 – 12:00 | Title: Stability of an abstract system with infinite history Presenter: Youkana Abderrahmane |
| Parallel Session S6 - Applied | |
| 10:00 – 10:15 | Title: Nonlocal differential operators applied to image processing Presenter: Sabira Ben Alia |
| 10:15 – 10:30 | Title: Self-similar solutions for free-boundary problem from contour enhancement in image processing Presenter: Hossemddine Achour |
| 10:30 – 10:45 | Title: Stochastic differential equation in image restoration Presenter: Halilou Radhia |
| 10:45 – 10:00 | Title: TVD WAF scheme with PVR5 Riemann Solver for the Drift-Flux Equations of Two-Phase Flows under Isothermal conditions Presenter: Souheyla Ouffa |
| 10:45 – 11:15 | Title: Hybrid conjugate gradient-BFGS methods based on Wolfe line search Presenter: Samia Khelladi |
| 11:15 – 11:30 | Title: Numerical simulation of a finite element bending support Presenter: abdelkader kirad |
| 11:30 – 11:45 | Title: The problem of the mixed boundary value of the elastic medium under torsion Presenter: Djamel Djamel |
| 11:45 – 12:00 | Title: SPDEs with space interactions and application to population modelling Presenter: Makhlouf Khouloud |
| Parallel Session S7 | |
| 13:00 – 13:15 | Title: Approximation of solutions for random fractional equations involving mean square Caputo derivatives Presenter: Hafssa Yfrah |
| 13:15 – 13:30 | Title: A new approximate analytical solution of fractional order nonlinear wave-like equations with variable coefficients Presenter: Khalouta Ali |
| 13:30 – 13:45 | Title: Solvability for a class of nonlinear fractional relaxation differential equations Presenter: Lachouri Adel |
| 13:45 – 14:00 | Title: Existence and Ulam stability of k -Generalized ψ -Hilfer Fractional Problem Presenter: Lazreg Jamal Eddine |
| 14:00 – 14:15 | Title: Abstract Nonlinear Boundary Implicit Caputo--Exponential Type Fractional Differential Equations Presenter: Malti Ahmed Ilyes Nedjib |
| 14:15 – | Title: Existence and uniqueness of solutions for system of time-invariant fractional differential equations |

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| 14:30 | Presenter: Mansouri Ikram |
| 14:30 – 14:45 | Title: A modified wright function for certain generalized fractional operators Presenter: Soumia Bourchi |
| 14:45 – 15:00 | Title: A discrete fractional covid-19 model existence and stability results Presenter: Noureddine Djenina |
| Parallel Session S8 | |
| 13:00 – 13:15 | Title: Exact Asymptotic Errors and Bandwidth Selection for M-estimation under Truncated-Censored and Dependent Data Presenter: Hassiba Benseradj |
| 13:15 – 13:30 | Title: Semi-recursive kernel conditional density estimators under random censorship and dependent data Presenter: Sihem Semmar |
| 13:30 – 13:45 | Title: Strong consistency of a conditional mode estimator in the presence of doubly censored data Presenter: Hadjer Benchoulak |
| 13:45 – 14:00 | Title: Uniform convergence of nonparametric conditional hazard function in the single functional modeling for dependent data Presenter: Torkia Merouan |
| 14:00 – 14:15 | Title: Variable Selection strategy for zero inflated models with application to automobile insurance data. Presenter: Soumia Kaci |
| 14:15 – 14:30 | Title: Comparative study between two versions of Metropolis-Hasting algorithm for generating computer experiment designs according to a point process Presenter: Hichem Elmoosaoui |
| 14:30 – 14:45 | Title: Adaptive gamma-BSPE kernel density estimation for nonnegative heavy tailed data Presenter: Yasmina Ziane |
| 14:45 – 15:00 | Title: Value-at-risk prediction using garch model and bayesian extreme value for mixture distributions Presenter: Redhouane Frihi |
| Parallel Session S9 | |
| 15:30 – 15:45 | Title: On certain commutator estimates for vector fields on variable triebel-lizorkin spaces Presenter: Ben Mahmoud Salah |
| 15:45 – 16:00 | Title: On the L_p boundedness of a class of semiclassical Fourier integral operators Presenter: Elong Ouissam |
| 16:00 – 16:15 | Title: Multiple nontrivial solutions for a class of nonlinear elliptic Kirchhoff equations Presenter: Hayat Benchira |
| 16:15 – 16:30 | Title: Exponential stability for a delayed flexible structure with temperature and microtemperature effects Presenter: Houasni Mohamed |
| 16:30 – | Title: Multiple solutions for nonhomogeneous elliptic equations involving critical Caffarlli-Kohn-Nirenberg exponent |

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| 16:45 | Presenter: Keddar Naima |
| 16:45 – 17:00 | Title: Vanishing viscosity for the navier-stokes Boussinesq system Presenter: Maafa Youssouf |
| 17:00 – 17:15 | Title: Asymptotic behaviour of solutions of nonlocal elliptic problems Presenter: Zaouche Elmehdi |
| 17:15 – 17:30 | Title: Variable Besov-type spaces Presenter: Zeghad Zouheyr |
| Parallel Session S10 | |
| 15:30 – 15:45 | Title: Some Asymptotic Properties of the Conditional Set-Indexed Empirical Process Based on Dependent Functional Data Presenter: Souddi Youssouf |
| 15:45 – 16:00 | Title: Martingale Methods For Analysing The Non-Markovian Multiserver Retrial Queues Presenter: Houria Oukid |
| 16:00 – 16:15 | Title: Stability bounds comparison in the (R,S,LN Q) inventory model. Presenter: Nedjma Aiane |
| 16:15 – 16:30 | Title: A hybrid genetic algorithm for the protein structure prediction problem. Presenter: Nabil boumedine |
| 16:30 – 16:45 | Title: A new hierarchical secret sharing scheme Presenter: Meriem Ghanem |
| 16:45 – 17:00 | Title: Control of an Euler-Bernoulli beam with a nonlinear tension and an end-mass Presenter: Billal Lekdim |
| 17:00 – 17:15 | Title: Decomposition Based Parallel Hybrid MOEA with Application to the multiobjective multidimensional Knapsack Problem Presenter: Nedjmeddine Kantour |
| 17:15 – 17:30 | Title: A long-term study of the collective cell behavior of phytoplankton using the moment approximation method of an individual-based model (IBM). Presenter: Naziha Bordj |