



Program

Monday December 20, 2021

08h30: Opening

Conference Room

Chairman: Lotfi Beji

09h00 : Housseem Haddar (Ecole Polytechnique, France) Duality between invisibility and resonance with some applications.

09h45: Coffee Break

10h15: Parallel Sessions

Conference Room	Room 1
Chair: Faiçal Abdmouleh	Chair: Mondher Benjemaa
<p>10h15: Habib Fourti: Multispikes Solutions for a slightly subcritical elliptic problem with non-power nonlinearity.</p> <p>10h35: Ghada Bouamaied: Global polynomial observation with optimal decay rate.</p> <p>10h55: Saoussen Boujemaa: Asymptotic expansion of the solution to the Maxwell problem. in the presence of inclusions.</p> <p>11h15: Walid Boughamda: On the exponential stability of a star-shaped network of variable coefficients strings connected by a point mass.</p> <p>11h35 : Cherif Zaidi: On the classification of stable solutions of the fractional equation.</p>	<p>10h15: Aida Jrajria: Discontinuous Galerkin method for the 1D nonlinear wave equation.</p> <p>10h35: Fatma Jerbi: Study of energy decay for fractional damped waves.</p> <p>10h55: Nour El Houda Rettab: Mathematical modeling of infectious disease.</p> <p>11h15: Najeh Tahri: Contribution to the concept of almost periodicity on time scales and study of a second order neural model.</p> <p>11h35: Safa Bridaa : Contribution à l'infiniment divisible, comportement des fonctions de Bernstein et incidence sur les lois fini-dimensionnelles des subordonateurs.</p>
Lunch	



Program

2

Monday December 20, 2021

Conference Room (Online)

Chairman: Bilel Krichen

15h00: Nabil Mlaiki (Prince Sultan University, Saudi Arabia) Double controlled metric like spaces.

15h45: Coffee Break and Posters Session

16h15: Parallel Sessions

Conference Room	Room 1
Chair: Ines Walha	Chair: Mohsen Miraoui
<p>16h15: Ines Ben Rzig: Stabilization problem of time Varying Delay Control Systems.</p> <p>16h35: Abdessalem Bouzidi: Finite Time Stability of a class of nonlinear systems.</p> <p>16h55: Abdelfateh Hamzaoui: Converse Lyapunov theorem stability for time-varying nonlinear systems.</p> <p>17h15: Mohamed Khalfallah: A description via second degree character of a family of quasi-symmetric forms.</p> <p>17h35: Walid Marweni: Primality, criticality and minimality problems in trees.</p>	<p>16h15: Safoua Khelifi: Contribution to the study of the existence, uniqueness and stability of a pseudo-almost automorphic solution with measure for certain evolution equations.</p> <p>16h35: Sonia Missaoui: Quantu, fractional orstein-Uhlenbeck semigroups and associated potentials.</p> <p>16h55: Marwa Missaoui: Generalized Riection Wick differential equation and applications.</p> <p>17h15: Abir Hamdi: Measure pseudo almost periodic and automorphic solutions for semi linear integro-differential equations in Banach spaces.</p> <p>17h35: Hanen Assel: Measure pseudo almost periodic solutions for differential equations with piecewise constant argument.</p>



Program

3

Tuesday December 21, 2021

Conference Room

Chairman: Housseem Haddar

08h45: Lotfi Beji (University of Evry, France) Integrating human sensation for disabled people in a virtual ski-platform: mathematical models' improvement.

09h30: Chaker Jammazi (ENIT, Tunisia) Recent results on the controllability and stabilization of bilinear control systems.

10h15 : Coffee Break

Conference Room (Online)

Chairman: Mondher Benjema

10h45: Masood Khalique (North-West University, Mafikeng Campus, South Africa) Symmetries and conservation laws for differential equations.

11h30: Parallel Sessions

Conference Room

Room 1

Chair: Ines Ellouze

Chair: Hedi Nabli

11h30: Maryam Ben Salah: Principe de séparation des systèmes incertains avec retards.

11h50: Wided Goadri: New results on the uniform exponential stability of non-autonomous perturbed dynamical systems.

12h10: Salma Zouaghi: Partical Stability of non-linear time-delay interacted systems.

12h30 : Mohamed Ben Salah: Inverse source problem for time-fractional diffusion.

11h30: Hanen Damak: Compensator design of semilinear evolution equations.

11h50: Zaineb Selmi: Classification of differential operators on the supercircle $S^{\{1/2\}}$.

12h10: Sana Natchaoui: Random pullback exponential attractors for differential equations with random delay.

12h30: Hajer Rejab: Characterization of an infinitely multivariate Gamma distribution.

Lunch



Program

Tuesday December 21, 2021

Conference Room (Online)

Chairman: Thouraya Kharrat

15h00: Wilfrid Perruquetti (Ecole centrale de Lille, CNRS, France) Non-Asymptotic convergence for TDS.

15h45: Coffee Break and Posters Session.

16h15: Parallel Sessions

Conference Room (Online)	Room 1
Chair: Wajdi Chaker	Chair: Thouraya Kharrat
<p>16h15: Mustapha Meghnafi: Exact number of solutions of two-point boundary value problems involving convex nonlinearities.</p> <p>16h35: Houria Meghnafi: A Contribution to stochastic differential equations.</p> <p>16h55: Imad-Eddine Abbes: On the practical exponential stability of certain perturbed systems.</p> <p>17h15: Ramdane Rahal: Genetic algorithms models for time series.</p> <p>17h 35: Hichem el Hendi: Harmonic maps between Berger-type deformed Sasaki metric.</p>	<p>16h15: Samir Toumi: Stability analysis of coupled PDE-ODE in rotary drilling system.</p> <p>16h35: Souhila Loucif: On the approximate controllability of the Boussinesq equation.</p> <p>16h55: Adnène Arbi: Stepanov-like weighted pseudo almost periodic results for Quaternion-valued fuzzy dynamical neural networks on timescales.</p> <p>17h15: Nizar Mannai: Failure probability of a K-out-of-N system under shocks.</p>



Program

Wednesday December 22, 2021

Conference Room (Online)

Chairman: Chaker Jammazi

08h45: Elisabetta Carlini (La Sapienza, Rome, Italy) A semi-Lagrangian scheme for Hamilton-Jacobi-Bellman equations with oblique boundary conditions.

09h30: Elisa Calzola (University of Verona, Italy): A second order Lagrange-Galerkin scheme for Fokker-Planck-Kolmogorov equations and applications to MFGs

09h45: Coffee Break

10h15: Parallel Sessions

Conference Room (Online)	Room 1
Chair: Bilel Mefteh	Chair: Abdelaziz Ghribi
<p>10h15: Amel Hioual: On asymptotic stability of fractional variable-order neural networks with time-varying external inputs.</p> <p>10h35: Kheireddine Biroud: Existence of solutions to the nonlocal parabolic equations.</p> <p>10h55: Mohammad Sajid: Fractal and chaos in dynamical systems.</p> <p>11h15: Abdelkader Dellal: Existence of soliton solutions: Derrick's Problem with (r, p)-Laplacian.</p>	<p>10h15: Mourad Hrizi: A non-iterative reconstruction approach of contact regions in semiconductor transistors.</p> <p>10h35: Khaled Khachnaoui: Nehari type solutions for fractional Hamiltonian systems.</p> <p>10h55: Soumaya Idriss: Nonlinear Urn Models via stochastic approximation algorithms.</p> <p>11h15: Mariem Dhifet: Existence of bounded variation solution to 1-Laplacian Kirchoff type problem in R^n.</p> <p>11h35 : Chiraz Jendoubi: Sur la théorie des solutions mu-pseudo presque automorphes pour des équations différentielles à retard.</p>
Lunch	



Program

6

Thursday December, 23, 2021

Conference Room (Online)

Chairman: Mohamed Amin Ghorbel

08h45: Ahmed Kebaier (University of Evry, Paris-Saclay, France) Approximation of stochastic Volterra Equations with kernels of completely monotone type.

09h30 : Coffee Break

10h00: Nader Masmoudi (New York University, Abu Dhabi). Recent advances in nonlinear inviscid damping.

10h45: Aya Oussaily (University T. Compiègne, France) : Solution continue pour un système eikonal non linéaire.

12h00: Closure

