



1

Monday December 18, 2023

08h30: Opening

Conference Room

Chairman: Azgal Abichou

08h45: **Tahar Z. Boulmezaoud** (Université Versailles, France)

09h30: **Islam Boussada** (IPSA, Centrale Supélec, Paris-Saclay, France) *Stabilisation prescrite de systèmes de dimension infinie*

10h15: **Coffee Break**

10h45: Parallel Sessions

Conference Room	Room
Chair: Nadhem Echi	Chair: Boulbaba Ghanmi
<p>10h45: Bilel Neggal <i>H-Stability For Nonlinear Abstract Dynamic Equations On Time Scales And Applications.</i></p> <p>11h05: Khawla Ben Mrad <i>Separation principle of singular systems including multiple delayed.</i></p> <p>11h25: Chahnaz Zakia Timimoun <i>Stability results for Korteweg-de Vries equation.</i></p> <p>11h45: Chiraz Jendoubi <i>Etude des solutions périodiques pour des équations différentielles non autonomes a retard et a domaine non dense.</i></p> <p>12h05: Saïd Mazouzi <i>On a generalized degenerate fractional differential IVP in a Banach space.</i></p>	<p>10h45: Rabah Belbaki <i>On the monotone generalized. λ-α -non expansive mappings in hyperbolic spaces.</i></p> <p>11h05: Ramdane Rahal <i>Genetic algorithms models for time series.</i></p> <p>11h25: Nasri Nassima <i>Error estimates of some Newton-Cotes type inequalities involving almost two points.</i></p> <p>11h45: Abdelkader Lakmeche <i>Some predator-prey models.</i></p> <p>12h05 : Hafida Goual <i>Numerical analysis of the double Burr type XII model censored and uncensored validation with Bayesian and non-Bayesian estimation methods.</i></p>
Lunch	



Monday December 18, 2023

Conference Room

Chairman: Islam Boussada

14:15 : Jean Lerbet (Université d'Evry/Paris Saclay) *Géométrie différentielle et mécanique incrémentale lisse.*

15h00: Dalil Ichalal (Université d'Evry/Paris-Saclay) *On High Gain Observers for a class of nonlinear dynamical systems.*

15h45: Coffee Break and Posters Session (Session I).

16h15: Parallel Sessions

Conference Room	Room
Chair: Thouraya Kharrat	Chair: Mustapha Meghnafi

<p>16h15: Rahma Heni <i>Asymptotic stability of semi linear systems</i></p> <p>16h35: Abdelhak Djebela <i>Exponential stability of Lord-Shulman system</i></p> <p>16h55: El Amir Djefal <i>A feasible interior point method to absolute value equation</i></p> <p>17h15 : Amel Redjil <i>On regularity of g- stochastic differential equations</i></p>	<p>16h15: Nita Hadjer <i>Bounds for performance measures of a queuing system with dependent feedback</i></p> <p>16h35: Bouras Mohammed Cherif <i>On a new combination of orthogonal polynomials sequences</i></p> <p>16h55: Abdelli Mama <i>Global existence stability for a petrovsky equation with properties of nonlinear localized for strong damping.</i></p> <p>17h15: Mohamed Helal <i>A Dynamic model of chronic myeloid leukemia under treatment</i></p>
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Tuesday December 19, 2023

Conference Room

Chairman: Lotfi Beji

08h30 : James Thornton (University of Oxford) *Diffusions, bridges, flows and optimal transport.*

09h15: Chaker Jammazi (ENIT) *On the Logarithmic Stability Estimates of Dynamical Systems. Applications to Weak and Strong Logarithmic-Polynomial Stabilization*

10h00 : Coffee Break

10h45: Parallel Sessions

Conference Room	Room
Chair: Mekki Hammi	Chair: Khalida Aissani

10h45: FatmaBadri *New result on asymptotic stability of time-varying non linear equations*

11h05: Mariam Ben Salah *Practical stabilization of multiple delayed uncertain system*

11h25: Sahbi Boughattas *H*-Stability Analysis*

11h45: Asma Djerrai *Stability and Lyapunov Function of certain Third Order Nonlinear Dynamical Systems*

12h05: Abdelfattah Hamzaoui *Practical asymptotic stability for time-varying systems.*

10h45: Hamida Talhi *Bayesian estimation of the bertholon distribution in the presence of censored data*

11h05: Kawther Dhifaoui *Maps preserving the maximal numerical range of operator products*

11h25: Imane Boussetouan *On the Stokes and Navier-Stokes equations with mixed boundary conditions involving the pressure*

11h45: Abdelghani Lakhdari *A modified quasi-boundare value method for an inverse fractional pseudo-parabolic problem with involution*

12h05: Samir Touni *Refinement of Backstepping Control Using Neural Operators for Hyperbolic Partial Differential Equations in Rotary Drilling Systems.*

Lunch



Tuesday December 19, 2023

Conference Room

Chairman: Chaker Jammazi

15h00: Aissa Guesmia (University of Lorraine, Metz, France) *Well-posedness and stability results for thermoelastic Bresse and Timoshenko type systems with Gurtin-Pipkin's law through the vertical displacements.*

15h45: Coffee Break and Posters Session (Session II).

16h15: Parallel Sessions

Conference Room	Room
Chair: Ines Walha	Chair: Mohsen Miraoui

16h15: Soheyb Milles *Ideals and Filters on Topology Generated by Fuzzy Relation*

16h35: Chafia Karek *Homogenization of the Stokes problem in perforated domains with mixed boundary Condition*

16h55: Ameni Ellouze *Belief Functions for Heart Disease Prediction based on ML Models.*

17h15: Faten Mansouri *Practical Stabilization of conformable fractional-order nonlinear systems.*

17h35 : Ghada Bouamaied *Sur la stabilisation en temps petit de quelques systèmes non linéaires*

16h15: Benchettah Djaber Chems eddine *On the finite Element Approximation of a Non Coercive System of Elliptic Quasi Variational Inequalities*

16h35: Abderrahmane Abbes *Dynamical Analysis of a New Fractional-Order Discrete-Time Ikeda-Based Memristor System*

16h55 : Walid Boughamda *Boundary stability of three strings with variable coefficients under joint damping*

17h15: Imen Zaidi *Observer-based control design for nonlinear times delay systems.*

17h45 : Mariem Dhifet *On some weighted 1-Laplacian problem on R^N with singular behavior at the origin*



Wednesday December 20, 2023

Conference Room:

Chairman: Lotfi Beji

08h30 : Jiayi Han (Jilin University) *Research on Human-Machine Haptic Interactive Shared Steering Control Based on Driver Behavior Understanding for Intelligent Vehicle.*

09h15: Rosana Rodríguez-López (Universidade de Santiago de Compostela, SPAIN) *On some recent approaches to differential equations with uncertainty*

10h00: Coffee Break**10h45: Parallel Sessions**

Conference Room	Room
Chair: Abdellatif Ben Makhlouf	Chair: Imen Boutouria

10h45: Ahmed Abbassi *Le traitement des fractions dans la tradition mathématique arabe à travers les travaux d'al-Nīsābūrī (m. vers 1330) et Ibn al-Bannā' al-Marrākushī' (m. 1321).*

11h05: Jihen Sallay *Hyers-Ulam stability of Hadamard fractional stochastic differential equation.*

11h25: Kais Dhifaoui *Characterization of $a.S$ -Weyl in Banach Spaces*

12h45 : Hacene Saker *On the harmonic problem with Nonlinear Boundary Integral Conditions.*

12h05: Kaoutar El-Khalf *Gegenbauer polynomials on a bounded interval*

10h45: Wissame Selmani *Population growth models proportional to Beta densities, Blumberg's equation and riddled basin*

11h05: Salmi Abdelouahab *Dynamics of a System of Higher Order Difference Equations With a Period-Two Coefficient*

11h25 : Hassen Ahmed *A practical observer for state and sensor fault*

11h45: Nizar Mahfouthi *Stabilization of the delayed Fisher equation*

12h05: Mariem Jlassi *Stabilization of delay coupled systems*

Lunch



Thursday December 21, 2023

Conference Room

Chairman: Tahar Z. Boulmezaoud

09h00: Azgal Abichou (Univ. Carthage - Centre-Val de Loire) *Quelques commandes stabilisantes pour des systèmes fortement NL*

10h00: Coffee Break

Conference Room

Chairman: Mohamed Amin Ghorbel

10h30: Bassem Ben Hamed (Univ. Sfax) *Machine Learning and Its Application in Lyapunov Stability Analysis*

11h30: Closure





Monday 18, 2023

15h45: Posters Session 1

Benzaid Djelloul *Bethe-Weizsacker semi-empirical mass formula parameters, update based on AME2020.*

Kerraci Abdelkader *A comparative study of sliding mode controllers: application to two degrees of freedom robot arm*

Ahmed-Salah Chibi *On the convergence rate of Robin type Overlapping Domain Decomposition Methods*

Haiour Mohamed *L^∞ Asymptotic Behavior Of A Finite Element Method For The system of evolutionary quasi-variational inequalities*

Khalida Aissani *Controllability of Fractional Integro-differential Equations with Infinite Delay and Non-Instantaneous Impulses*

Kelaiaia Smail *Set-open and uniform topologies on $C(X)$.*

Melouka Dehimi *Galerkin method applied to $p(\cdot)$ –Bi-Laplace equation with variable exponent.*

Yousfi Abla *Discrete dynamic system with complex behavior.*



Tuesday 19, 2023

15h45: Posters Session 2

Mustapha Meghnafi *Controllability for impulsive fractional evolution inclusion.*

Imad-Eddine Abbas *Practical exponential stability of nonlinear time-varying systems.*

Mohammed Meziane *Normal product operators of operators*

Mohamed Nehari *Existence of solutions for some class of system quasi linear differentials with nonlocal boundary conditions and with nonlinearity dependant on the first derivate in time scales.*

Nawel Mourah *On the stability of the implicit finite difference approximation method for time fractional diffusion equation.*

Naas Adjimi *Functional homogenization with Gamma function*

Taallah Frekh *Analysis and Approximation of Contact Problems In Solid Mech.*

Imane Boussetouan *On the Stokes and Navier-Stokes equations with mixed boundary conditions involving the pressure.*