

Faculté des Sciences
de SfaxInternational Conference on Advances in Applied Mathematics
ICAAM-2019

December 16-19, 2019, Hammamet-Tunisia

Program

Monday December 16, 2019
08h30: Opening

Conference Room: Sidi Bousaid

Chairman: Mohamed Ali Hammami

09h00: Masood Khalique, Symmetry group techniques for differential equations, North-West University, South Africa.

09h45: Delfim F. M. Torres, The Time-Scale Calculus and a Dynamic SIR Model, CIDMA & University of Aveiro, Portugal.

10h30: Coffee Break

11h00: Parallel Sessions

Conference Room: Sidi Bousaid	Room: LaMarsa
Chairman: Meghnaifi Mustapha	Chairman: Faïçal Abdelmoulah
<p>11h00: Abdenour Hamdaoui, A Modal Bayes Estimator for the Multivariate Normal Mean.</p> <p>11h20: Chebbah Mohammed, Improvement combined of Simulations for efficient combination of two lower bound functions .</p> <p>11h40: Dehilis Sofiane, Efficient Technique For The Diffusion Equation With Nonlocal Boundary Conditions.</p> <p>12h00: Walid Boughamda, Exponential Stability Of Two Strings Under Joint Damping With Variable Coefficients.</p> <p>12h20: Monia Belhadj Salah, Stabilization Of A Suspension Bridge With A Boundary Damping.</p>	<p>11h00: Abdellatif Ghendir, On a three-point fractional integral boundary value problem on the half-line.</p> <p>11h20: Sidi Ali Fatima Zohra, Uniform Boundary Stabilization Of The Wave Equation With A Nonlinear Delay Term In The Boundary Feedback</p> <p>11h40: Hanen Damak, Asymptotic stability of a perturbed abstract differential equations in Banach spaces.</p> <p>12h00: Rezzoug Imad, Approximate Controllability.</p> <p>12h20: Abderrazak Nabti, Life span of blowing-up solutions to Cauchy problem for a time-space fractional diffusion equation.</p>



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Monday December 16, 2019

Conference Room: Sidi Bousaid

Chairman: Mohamed Ali Jendoubi

15h00: **Thierry Horsin**, Stabilisation d'un système couplé, Président De La SMAI Chez SMA, Région De Paris, France

15h45: Coffee Break and Posters Session

16h45: Parallel Sessions

Conference Room: Sidi Bousaid

Room: LaMarsa

Chairman: Bilel Krichen

Chairman: Mondher Ben Jemaa

16h45: **Eya Zougar**, Exact variation for stochastic heat equation with piecewise constant coefficients and application to parameter estimation.17h05: **Mancer Saida**, New weighted extreme value index estimator for right truncated data.17h25: **Karek Chafia**, Homogenization of the Stokes problem in perforated domains with mixed boundary Condition.17h45: **Ellaggoune Fateh**, Existence of solutions for a fractional boundary value problem in a weighted space.16h45: **Boulbaba Ghanmi**, On The Practical H-Stability Of Nonlinear Systems Of Differential Equations.17h05: **Mesbah Nadia**, Study Of *- Finite Operators.17h25: **Ghecham Wassila**, Stability of the Schrodinger equation with distributed delay term in the boundary feedback.17h45 : **Tamer Lazhar**, Maximum principles for jump diffusion with regime switching on infinite horizon.



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Tuesday December 17, 2019

Conference Room: Sidi Bousaid

Chairman: Masood Khalique

08h45: Mohamed Ali Jendoubi, Comportement à l'infini des solutions globales et bornées de quelques problèmes d'évolution du second ordre, University of Carthage, Tunisia.

9h30: Hacene Belbachir, Non-integerness of some extended harmonic numbers, University of Houari Boumediene Algeria.

10h15 : Coffee Break**10h45: Parallel Sessions**

Conference Room: Sidi Bousaid	Room:Kairouan	Room: LaMarsa
Chairman: Thouraya Kharrat	Chairman: Faïçal Abdelmoulah	Chairman: Baghdedi Aloui
<p>10h45: Aida Jrajria, Discontinuous Galerkin Methods Of Nonlinear Wave Equation</p> <p>11h05: Fatma Jerbi, Finite difference scheme for the second order wave equation with fractional boundary condition.</p> <p>11h25: Ines Ben Rzig, Stability Of Time Delayed Systems Depending On Parameter.</p> <p>11h45 : Najla Hnia, On the stability of perturbed Volterra integro-differential equations .</p> <p>12h05: Abdessalem Bouzidi, Stability and Stabilization of uncertain nonlinear Systems.</p>	<p>10h45: Hedi Benkhalel, On the demicompactness of strongly continuous semigroups.</p> <p>11h05: Malik Lajnaf, An introduction to the local spectral theory for linear relations.</p> <p>11h25: Nawraz Lazrag, Sequence of closable linear operators converging in the generalized sense.</p> <p>11h45: Ameni Bouchakoua, The essential pseudospectra of linear relations on a Banach space.</p> <p>12h05: Imen Ferjani, Generalized weak demicompactness involving measures of non-strict-singularity.</p>	<p>10h45: Lecheheb Samira, Existence of solutions for some nonlinear equations and application in image processing.</p> <p>11h05: Khachnaoui Khaled, Innitely many homoclinic solutions for Fractional damped vibration systems</p> <p>11h25: Amira Hamdi, New hybrid conjugate gradient algorithms for unconstrained optimization .</p> <p>11h45: Soheyb Milles, Fixed Point Theorems On Intuitionistic Fuzzy Ordered Sets</p> <p>12h05: Kerraci Abdelkader, Adaptive Sliding Mode Controller Using Conditional Integrator For A Class Of Nonlinear Systems.</p>

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Tuesday December 17, 2019

Conference Room: Sidi Bousaid

Chairman: Jerbi Hamadi

15h00: Farouk Cherif, Exposants de Lyapunov et oscillations hamiltoniennes, University of Sousse, Tunisia.

15h45: Coffee Break

16h15: Parallel Sessions

Conference Room: Sidi Bousaid	Room: Kairouan	Room: LaMarsa
Chairman: Mohamed Amin Ghorbel	Chairman: Wajdi Chaker	Chairman: Boulbaba Ghanmi
<p>16h15: Abdelaziz Azeb Ahmed, Study of a frictionless contact problem for piezoelectric materials with damage</p> <p>16h35: Tedjani Hadj Ammar, A dynamic contact between elasto-viscoelastic piezoelectric bodies.</p> <p>16h55: Khelifi Safoua, On the Integro-Differential Equations with Refection.</p> <p>17h15: Badreddine Mansouri, Backward Doubly SDEs with weak Monotonicity and General Growth Generators.</p>	<p>16h15 : Omar Fahem, Fixed point theory in partially Banach algebra.</p> <p>16h35 : Bilel Trabelsi, Weakly pseudo S0-demicompactness and e-pseudo B-Fredholm.</p> <p>16h55 :Sana Bouzidi, Left-Right Weyl spectra involving the measure of non strict singularity and application to unbounded operator matrix.</p> <p>17h15: Fatiha Boutaous, Equation Differentielle</p>	<p>16h15: Abir Kicha, Some new results on the global uniform asymptotic stability of time-varying dynamical systems.</p> <p>16h35: Rettab Nour El Houda, On the estimation of the region of attraction.</p> <p>16h55: Amri Dalel, Study of Frenkel-Kontorova mode.</p> <p>17h15: Gouadri Wided, Stability of Nonlinear Dynamic Systems Under Small perturbation.</p> <p>17h35 : Zitouni Basma, Strong observability for particular systems.</p>

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Wednesday December 18, 2019

Conference Room: Sidi Bousaid

Chairman: Afif Masmoudi

08h45: Chaker Jammazi, Recent results on small-time stabilization of bilinear control systems in Hilbert space, University of Carthage, Tunisia

09h30: Mondher Ben Jemaa, Discontinuous inverted finite elements methods for elliptic problems in unbounded domains, University of Sfax, Tunisia.

10h15: Coffee Break

10h45: Parallel Sessions

Conference Room: Sidi Bousaid	Room: LaMarsa
Chairman: Bilel Krichen	Chairman: Nabila Torki
<p>10h45: Rabah KHEMIS, Existence, Uniqueness and Stability of Solutions.</p> <p>11h05: Ahlème Bouakkaz, Existence and Uniqueness results for some classes of Iterative Differential Equations.</p> <p>11h25: Chiraz Jendoubi, Unstable and stable manifolds for nonautonomous delayed differential equations.</p> <p>11h45: Blouhi Tyeb, Naturally Harmonic Maps Between Tangent Bundles.</p> <p>12h05: Rafik Zeraoulia, A new special function and its application in probability.</p>	<p>10h45: Ghada Ben Belgacem, Finite-time stabilization of n-strings connected by point masses.</p> <p>11h05: Maâli Zaghdoudi, Partial Stability and optimality.</p> <p>11h25: Mourad Yettou, Isotone f-derivations on a lattice and their f-fixed points</p> <p>11h45: Meghnafi Mustapha, Multiple Solutions for Singular Boundary Value Problems With Discontinuous Nonlinearities.</p> <p>12h05 : Saker Hacene, On The Biharmonic Equation With Nonlinear Boundary Conditions.</p>

Lunch

EXCURSION

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Thursday December 19, 2019

8h45: Parallel Sessions

Conference Room: Sidi Bousaid	Room: LaMarsa
Chairman: Rabah KHEMIS	Chairman: Ghoudi Rabeh
<p>8h45: Mazouzi Said, Decay rate and blow up solutions for coupled quasilinear system.</p> <p>9h05: Zaamoune Faiza, Hidden Bifurcation in 2 – Dn × m-Grid Scroll Chaotic in Chen's Attractors.</p> <p>9h25: Rizwan Anjum, Rearrangement-Invariant Function Spaces.</p>	<p>8h45: Mezouar Nadia, Decay Rate And Blow Up Solutions For Coupled Quasilinear System</p> <p>9h05: Chibi Ahmed-Salah, Optimal higher order Steffensen's type methods for solving nonlinear equations uberian operators</p> <p>9h25: Belbaki Rabah, On The Monotone Generalized $\lambda - \alpha$ -Nonexpansive Mappings In Metric Spaces Of The Hyperbolic Type And Banach Spaces.</p>

10h00: Coffee Break

Conference Room: Carthage	Chairman: Aref Jeribi
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10h30: Nabila Torki, Differential operators on discrete structures, University of Monastir, Tunisia.

11h15: Azgal Abichou, , University of Carthage, Tunisia.

12h00: Closure