



December 17-20, 2018, Sousse-Tunisia

Program



Monday December, 17 2018

08h30: Opening

Conference Room: Carthage

Chairman: Mouez Dimassi

08h45: Azgal Abichou, (Ecole Polytechnique de Tunisie, Tunisia) & Lotfi Beji (University of Paris, France), Tout est sous contrôle !

09h30: Jean Virieux, (University J. Fourier Grenoble, France), Seismic tomography by adjoint methods based on Eikonal equation

10h15: Coffee Break

Conference Room: Carthage

Chairman: Azgal Abichou

10h45: Mouez Dimassi, (University of Bordeaux, France), On the system of \mathcal{H} -pseudo-differential operators: BKW construction and Bohr-Sommerfeld Quantization

11h30: Parallel Sessions

Conference Room: Carthage	Room: Djerba	Room: Kairouan
Chair: Nedra Moalla	Chair: Thouraya Kharrat	Chair: Hichem Chtioui
<p>11h30: Marwa Kammoun, Some results concerning Saphar relations</p> <p>11h50: Sana Bouzidi, Spectral properties of unbounded operator matrix by means of measure of non-strict singularity and application</p> <p>12h10: Ameni Bouchekoua, Some results of S- pseudospectra of linear operators</p> <p>12h30: Bilel Trabelsi, Spectral properties of B- Fredholm operators involving the class of relatively demicompact operators</p>	<p>11h30: Aroua Selmi, Pratical stability for perturbed systems with predictor feedback</p> <p>11h50: Khelifa Hizia, Stochastic practical input- to- state stability of perturbed triangular systems</p> <p>12h10: Nadhem Echi, Stabilization of a class of fractional order time delay nonlinear systems</p> <p>12h30: Wided Gouadri, Asymptotic stability of the solutions of dynamic systems with small perturbations</p>	<p>11h30: Faten Ezzine, Asymptotic behavior of solutions of certain stochastic systems</p> <p>11h50: Khaoula Abdelhadi, Backward stochastic differential equations associated to jump Markov processes</p> <p>12h10: Maâli Zaghdoudi, On the global polynomial stabilization of time- varying systems.</p> <p>12h30: Ihcène Naas, Convergence related parameterization of artificial bee colony algorithm</p>
Lunch		



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Monday December, 17 2018

Conference Room: Carthage

Chairman: Jean Virieux

15h00: Amar Debbouche (University of Guelma, Algeria), Analysis of weak solutions and stability for time-fractional Keller–Segel models

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

16h45: Parallel Sessions

Conference Room: Carthage	Room: Djerba	Room: Kairouan
Chair: Mokhless Hammami	Chair: Ahmad El Hajj	Chair: Abdelaziz Ghribi
<p>16h45: Siculo Goqo, Multivariable spectral quasi-linearization method for solving Elliptic type of equations</p> <p>17h05: Safia Benmansour, The Nehari decomposition for nonhomogeneous elliptic problems of Kirchhoff type</p> <p>17h25: Mohamed Nehari, Existence of solutions for differential equation in the times scales</p> <p>17h45: Mohamed Berbiche, On the large time behaviour and blow-up of solutions for some systems of evolution equations</p>	<p>16h45: Asma Toumi, A mixed EIM-SVD tensor decomposition for multivariate functions</p> <p>17h05: Khalida Aissani, Impulsive fractional evolution equations with state-dependent delay</p> <p>17h25: Abir Kicha, Polynomial stability of time-varying perturbed systems</p> <p>17h45: Chahnaz Zakia Timimoun, On minimax optimal control problem</p> <p>18h05: Ahlème Bouakkaz, Positive periodic solutions for a class of nonlinear neutral-type delay differential equations</p>	<p>16h45: Sabrine Chebbi, Lower bound and optimality for a non linearly Timoshenko system with thermoelasticity And discrete Energy behavior of a damped Timoshenko system.</p> <p>17h05: Naima Mehenaoui, Decay of the local energy for the solutions of the critical Klein Gordon equation</p> <p>17h25: Elyes Ahmed, Adaptive poromechanics computations based on a posteriori error estimates for fully mixed formulations of Biot's consolidation model</p> <p>17h45: Rahma Abid, Geometric dispersion models: characterizations and regressions</p> <p>18h05: Basma Zitouni, Generecity of the obsevability</p>



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Tuesday December, 18 2018

Conference Room: Carthage

Chairman: Amar Debbouche

08h45: **Hatem Zaag** (CNRS University of Paris 13, France), Construction of type I blowup solutions for a higher order semilinear parabolic equation09h30: **Ali Wehbe** (Lebanese University, Lebanon), The influence of the coefficients of a system of coupled wave equations with fractional damping on its stabilization10h15 : **Coffee Break**

Conference Room: Carthage

Chairman: Hatem Zaag

10h45: **Ahmad El Hajj** (University of Technology of Compiègne, France), Transport et localisation des dislocations11h30: **Parallel Sessions**

Conference Room: Carthage	Room : Djerba	Room : Kairouan
Chair: Bilel Krichen	Chair: Mondher Benjema	Chair: Ines Ellouze
<p>11h30: Karima Hammache, On fixed point theorems for contractive maps in Banach spaces</p> <p>11h50: Rabah Belbaki, On Reich type $\lambda - \alpha$ -nonexpansive mapping in Banach spaces with application to $L_1([0, 1])$.</p> <p>12h10: Maha Belhadj, Some generalizations of Darbo's fixed point theorems and applications</p> <p>12h30: Amor Fahem, Existence results for a system of quadratic equation in partially Banach algebra</p>	<p>11h30: Karek Chafia, Homogenization of the Stokes problem in domains with small holes by the periodic unfolding method</p> <p>11h50: Houria selatnia, moderately weak sentinel of a heat equation with incomplet data</p> <p>12h10: Samir Toumi, Stability analysis of pressure in rotary drilling system</p> <p>12h30: Amar Ould Hammouda, A Stokes Problem with Robin type Condition in porous media</p>	<p>11h30: Nadia Benkhetto, A conformable fractional calculus on arbitrary time scales</p> <p>11h50: Saïd Mazouzi, Long time behavior for a fractional Picard problem in a Hilbert space</p> <p>12h10: Nawal Irzi, On a fractional problem with variable exponent</p> <p>12h30: Abderrazak Nabti, Life span of blowing-up solutions to Cauchy roblem for a time-space fractional diffusion equation</p>
Lunch		



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Tuesday December, 18 2018

Conference Room: Carthage

Chairman: Sami Baraket

15h00: Raoudha Zine (University of Sfax, Tunisia), Riesz probability distribution on symmetric matrices

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

16h45: Parallel Sessions

Conference Room: Carthage	Room : Djerba	Room : Kairouan
Chair: Salma Charfi	Chair: Hamadi Jerbi	Chair: Bassem Ben Hamed
16h45: Hadia Messaoudene, Generalized finite operators	16h45: Nadia lebid, Existence of positive solutions for PVB of second order	16h45: Tedjani Hadj Ammar, A dynamic contact problem between elasto-viscoplastic piezoelectric bodies
17h05: Imen Msekni, Some Fredholm results for Tauberian operators	17h05: Zeinab Mhamdi, Equation elliptique non-linéaire fractionnaire	17h05: Azeb Ahmed Abelaziz Analysis of a bilateral contact problem for piezoelectric materials
17h25: Nawrez Lazrag, The essential spectrum of a sequence of closed linear relation in a Banach space	17h25: Jihed Hedhly, Uniform bounds for eigenvalue ratios of Sturm-Liouville problems	17h25: Atika Matallah, On nonhomogeneous critical p-Laplacian elliptic equations
17h45: Allal Ghanmi, S-polyregular Bargmann spaces	17h45: Kheireddine Biroud, An improved Hardy- Sobolev inequality with singular weight at the boundary	17h45: Mohamed Bouzefrane, On the global alliances numbers in graphs



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Wednesday December, 19 2018

Conference Room: Carthage

Chairman: Ali Wehbe

09h00: Chaudry Masood Khalique (North-West University, South Africa), Applications of symmetry methods to differential equations**09h45: Hacene Belbachir** (University of Bab Ezzouar, USTHB, Algeria), Extended Bernoulli-Euler polynomials, Euler-Genocchi Polynomials and Eulerian**10h30: Coffee Break****11h00: Parallel Sessions**

Conference Room: Carthage	Room : Djerba	Room : Kairouan
Chair: Raoudha Zine	Chair: Najib Kaddachi	Chair: Emna Kallel
11h00: Ines Walha , Essential spectra of unbounded operator matrices with non-diagonal domain and applications	11h00: Dahia Elhadj , Strong factorizations between couples of Lipschitz operators	11h00: Mohamed Amin Ghorbel , Homogenization on networks, traffic model
11h20: Melik Lajnaf , Isolated spectral points of a linear relation	11h20: Abdelhamid Laouar , New modified schemes for Burgers nonlinear equation	11h20: Confess Matete , On the Mathematical analysis of the misconceptions in Aerodynamics
11h40: Kais Feki , Joint spectral radius of operators in Hilbert spaces	11h40: Abdelaziz Belaada , A characterization of weakly compact homogeneous polynomials	11h40: Mohamed Zamime , Element deletion changes in alliances of graphs
12h00: Abdelhamid Tallab , Characterization of some classes of summing operators by traced tensor norms	12h00: Maatougui Belaala , On the class of Lipschitz phi-summing operators	12h00: Chiraz Jendoubi , Invariant manifolds of some delayed non-densely defined partial differential equations

Lunch

13h30: Excursion



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Thursday December, 20 2018

Conference Room: Carthage

Chairman: Chaudry Masood Khalique

09h00: Sami Baraket (Faculty of Sciences Tunis, Tunisia), Singular limiting solutions for 2-dimensional semi-linear elliptic system of Liouville type adding singular sources terms given by Dirac masses

09h45: Chaker Jammazi (Faculty of Sciences of Bizerte, Tunisia), On the slow and fast stabilization of some nonlinear control systems

10h30: Coffee Break

Conference Room: Carthage

Chairman: Hacene Belbachir

11h00: Lotfi Beji (University of Paris, France), Saclay Invariant sets construction in multi-mobile robots navigation

12h00: Closure

