

International Symposium: African Days on Applied Mathematics (ADAM'2017)
November 02-04 2017, Errachidia, Morocco

SYMPOSIUM PROGRAM

Timing	Thursday November 2, 2017		
08:15 – 09:30	Welcome Desk and Registration At “ Complexe Socio-culturel et Sportif Oulad El-haj, Route d'Erroud, Errachidia”		
09:30 – 10:45	Opening Ceremony		
10:45 – 11:15	Coffee Break		
11:15 – 12:00	Prof. Abdon Atangana		
12:15 – 13:00	Prof.Skander Belhaj	Prof.Robert Tchitnga	
13:15 – 15:00	Lunch		
15:00 – 16:00	Prof. Mahmoud Abdelaty		
16:00 – 17:00	Session 1	Session 2	Session 3
17:00 – 17:30	Coffee Break		
17:30 – 19:30	Session 4	Session 5	Session 6

Timing	Friday November 3, 2017		
08:00 – 09:00	Prof. Elhoussine Azroul		
09:00 – 10:30	Prof. Fethi B.M. Belgacem		
10:30 – 11:00	Coffee Break		
11:00 – 12:00	Prof. Mohamed Seaid		
12:00 – 13:00	Session 7	Session 8	Session 9
13:00 – 15:00	Lunch		
15:00 – 16:00	Prof. Khalil Ezzinbi		
16:00 – 17:00	Session 10	Session 11	Session 12
17:00 – 17:30	Coffee Break		
17:30 – 19:30	Poster session		
20:30 – 22:00	Gala dinner & Musical party		

Timing	Saturday November 4, 2017		
09:00	Departure from Errachidia Visit of Oulad Chaker, Ziz Valley, Erfoud, Rissani & Merzouga Lunch & Coffee-break		

Keynote Speaker 1

Title : FRACTAL-FRACTIONAL DIFFERENTIATION AND INTEGRATION

Author: ABDON ATANGANA

Session Chair: Mahmoud Abdelaty

Room: A

Keynote Speaker 2

Title : MATHEMATICAL MODELING OF ARAB IMPACT FACTOR

Author : MAHMOUD ABDEL-ATY

Session Chair : Mohamed Seaid

Room : A

Keynote Speaker 3

Title : ON SOME NONLINEAR NON HOMOGENEOUS PDE'S AND APPLICATIONS

Author : Elhoussine Azroul

Session Chair : Robert Tchitnga

Room : A

Keynote Speaker 4

Title : INTRODUCING AND ANALYZING PRIME COCOONS

Author : Fethi Bin Muhammad Belgacem

Session Chair : Skander Belhaj

Room : A

Keynote Speaker 5

Title : FAST NUMERICAL METHODS FOR STOCHASTIC
CONSERVATION LAWS AND CONVECTION-DIFFUSION
EQUATIONS

Author : Mohamed Seaid

Session Chair : Khalil Ezzinbi

Room : A

Keynote Speaker 6

Title : REDUCTION OF COMPLEXITY FOR PARTIAL FUNCTIONAL DIFFERENTIAL
EQUATIONS AND APPLICATIONS, NEW RESULTS AN OPEN PROBLEMS.

Author : Khalil Ezzinbi

Session Chair : Abdon Atangana

Room : A

Invited Session 1

Title : BEZOUT-LIKE MATRICES FOR BLIND IMAGE DECONVOLUTION

Author : Skander Belhaj

Session Chair : Elhoussine Azroul

Room : A

Invited Session 2

Title: VERY SIMPLE ELECTRONIC CIRCUITS MATCHING COMPLEX MATHEMATICAL APPLICATIONS: THE CASE OF A TWO-COMPONENT AUTONOMOUS CHAOTIC CIRCUIT

Author : Robert Tchitnga

Session Chair : Fethi Bin Muhammad Belgacem

Room : B

Contributed Session 1

Title: Analytical and Numerical Methods for Solving Differential Equations (*Chairman : Khaled Omrani/Ahcene Merad*)

- SOLUTION OF INTEGRO DIFFERENTIAL EQUATIONS USING SUMUDU AND LAPLACE TRANSFORM
GEGELE, O. A
- SOLVING AN ABSTRACT QUADRATIC EQUATION BY A NEWTON-LIKE METHOD AND APPLICATIONS
LOTFI MOUHADJER
- INVERSE ONE-PHASE STEFAN PROBLEM SOLVED BY THE VARIATIONAL ITERATION METHOD
AMEL BERHAIL
- LIE SYMMETRY ANALYSIS AND CONSERVATION LAWS OF NONLINEAR PARTIAL DIFFERENTIAL EQUATION
DOGAN KAYA, GULISTAN ISKANDAROVA
- A THREE LEVEL LINEARIZED COMPACT DIFFERENCE SCHEME FOR A MODEL OF NONLINEAR DISPERSIVE EQUATIONS
ASMA ROUATBI, AHLEM GHILOUFI, KHALED OMRANI

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- HIGHLY ACCURATE CONSERVATIVE FINITE DIFFERENCE SCHEME FOR THE ROSENAU-KAWAHARA EQUATION
AHLEM GHILOUFI, ASMA ROUATBI, KHALED OMRANI
- A NUMERICAL APPROXIMATION FOR SOLUTIONS OF A FUNCTIONAL INTEGRAL EQUATION IN L_p SPACES
SUZETE M. AFONSO
- INVERSE BOUNDARY VALUE PROBLEM FOR THE LAPLACE EQUATION
IMENE KHELIFA AND LAHCENE CHORFI

Contributed Session 2

Title: Statistics Probability and Stochastic Processes
(Chairman : Youssef El-Khatib/ Tomas Tichy)

- THE MEASUREMENT OF INEQUALITY IN THE CASE OF INTERSECTING LORENZ CURVES
TOMMASO LANDO AND LUCIO BERTOLI-BARSOTTI
- ON A SOLUTION OF THE OPTION PRICING PDE DURING CRISIS
YOUSSEF EL-KHATIB
- SEVERAL ALTERNATIVE NUMERICAL TECHNIQUES TO OPTION PRICING AND THEIR COMPARISON
TOMAS TICHY, ALES KRESTA, MICHAL HOLCAPEK, JIRI HOZMAN
- A SPACE-PROBABILISTIC SEPARATION APPROACH FOR STRUCTURE STATIC RELIABILITY ANALYSIS
LOTFI NCIB
- COMPARISON BETWEEN SPATIAL CONTEXTUAL GAUSSIAN PROCESS CLASSIFICATION METHOD AND OTHER METHODS
HOUDA HASSOUNA, FARID MELGANI
- ESTIMATION OF WANG'S RISK MEASURE FOR HEAVY TAILED DEPENDENT DATA
OUDJED HAKIM
- BREAK-EVEN ANALYSIS WITH RANDOM VARIABLES
ALES KRESTA, TOMAS TICHY
- ROBUST ESTIMATOR OF CONDITIONAL TAIL EXPECTATION IN THE CASE OF HEAVY-TAILED LOSSES
LALA BOUALI DALAL AND BENATIA FATAH
- ZERO-SUM STOCHASTIC DIFFERENTIAL GAME IN FINITE HORIZON INVOLVING IMPULSE CONTROLS
BRAHIM EL ASRI AND SEHAIL MAZID

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- PERFORMANCE OF THE STRONG STABILITY METHOD IN THE UNIVARIATE CLASSICAL RISK MODEL.
SAFIA HOCINE, ZINA BENOURET AND DJAMIL AISSANI
- STOCHASTIC PROCESSES IN METAHEURISTICS
ASMAE GANNOUNI, EL-GHAZALI TALBI, AND RACHID ELLAIA
- PERFORMANCE ANALYSIS OF A FINITE-SOURCE RETRIAL QUEUE WITH CONSTANT RETRIAL POLICY USING THE MRSPN FORMALISM
OUIZA LEKADIR, LYES IKHLEF AND DJAMIL AISSANI
- STABILITY BOUND OF RUIN PROBABILITY IN AN MODIFIED CLASSICAL RISK MODEL
Z. BENOURET AND D. AISSANI

Contributed Session 3

Title: COMPUTATIONAL FLUID DYNAMICS

(Chairman : Mohamed Seaid/ Abdelkader Laiadi)

- A NEW LAGRANGE-GALERKIN METHOD FOR INCOMPRESSIBLE NAVIER-STOKES EQUATIONS AT HIGH REYNOLDS NUMBERS
YOUSSEF ZGUIR, MOFDI EL-AMRANI, MOHAMMED SEAID
- NUMERICAL ANALYSIS OF TRANSIENT MIXED CONVECTION FLOW IN POROUS MEDIA
SALHI LOUBNA, MOFDI EL-AMRANI, AHMED TAIK, MOHAMMED SEAID
- TWO ALTERNATIVE METHODS TO CALCULATE THE ROUGHNESS EFFECTS ON A TRANSLATIONAL PARTICLE IN A FLUID AT REST
R. ASSOUDI, M. CHAOUI AND K. LAMZOUD
- CONVECTIVE EXOTHERMIC FLUID FLOW IN VERTICAL CHANNEL FILLED WITH POROUS MATERIAL
BASANT K. JHA, AND MUHAMMAD L. KAURANGINI
- DISCRETE KINETIC THEORY FOR 2D MODELING OF CROWD MOTION: CROWD CHARACTERIZED BY A STATE OF EQUILIBRIUM.
A. ELMOUSSAOUI, A.HAKIM.
- NEW METHOD FOR THE STOKES-DARCY MODEL
MALEK RAJAE
- UNSTEADY MAGNETOHYDRODYNAMIC FLOW OF JEFFREY FLUID THROUGH A POROUS OSCILLATING RECTANGULAR DUCT
AMIR KHAN, GUL ZAMAN, OBAID ALGAHTANI
- FREE SURFACE FLOW OVER AN INCLINED STEP WITH SURFACE TENSION
ABDELKADER LAIADI

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- ADAPTATION TECHNIQUES BASED ON A FINITE VOLUME METHOD FOR DIFFUSION OF OZONE ON AN ATMOSPHERIC BOUNDARY LAYER.
TAYEQ HATIM AND BERGAM AMAL
- NUMERICAL ANALYSIS FOR A TRANSIENT VISCOELASTIC FLUID FLOW: CHARACTERISTICS METHOD
NOURDINE EL AMARTY

Contributed Session 4

**Title: Dynamical systems and Neutral Differential Equations
(Chairman : El Hassan Zerrik/Khalil Ezzinbi)**

- THE LIMIT CYCLES OF A CLASS OF QUINTIC POLYNOMIAL VECTOR FIELDS
TAYEB SALHI
- COMPACT ALMOST AUTOMORPHIC SOLUTIONS FOR SOME EVOLUTION EQUATIONS WITH APPLICATION TO SOME PARABOLIC AND HYPERBOLIC SYSTEMS
KHALIL EZZINBI AND MOHAMED ZIAT
- APPROXIMATE CONTROLLABILITY FOR SEMILINEAR DELAY INTEGRO-DIFFERENTIAL EQUATIONS
FATIMA BOUDCHICH AND KHALIL EZZINBI
- PSEUDO ALMOST AUTOMORPHIC SOLUTIONS FOR NONAUTONOMOUS PARABOLIC EVOLUTION EQUATIONS WITH INHOMOGENEOUS BOUNDARY CONDITIONS
KAMAL KHALIL, KHALIL EZZINBI, LAHCEN MANIAR
- ANALYZING THE STABILITY OF MEMES TRANSMISSION MODEL
MOHAMED HELAL, YUCEF BELGAID, NAWAL KHERBOUCHE AND ABDELKADER LAKMECHE

Contributed Session 5

**Title: Theoretical Mechanics and Mathematical Physics
(Chairman : Youness Benjalal/Robert Tchitnga)**

- ON THE INTEGRABILITY OF THE DIAMAGNETIC KEPLER PROBLEM IN EXTERNALS FIELDS
J.KHARBACH, W. CHATAR, M. BENKHALI, I.EL FAKKOUSY, A. SALI, A. REZZOUK, AND M. OUAZZANI JAMIL
- INTEGRALS OF MOTION FOR THE THREE-DIMENSIONAL GENERALIZED HENON-HEILES HAMILTONIAN
I.EL FAKKOUSY, M. BENKHALI, W. CHATAR, J.KHARBACH, A. SALI, A. REZZOUK, AND M. OUAZZANI JAMIL

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- ANALYSIS OF A VISCOELASTIC SLIDING FRICTIONAL CONTACT PROBLEM WITH UNILATERAL CONTACT AND NORMAL COMPLIANCE
YAHYEH SOULEIMAN
- IMAGE PROCESSING USING THE LBM METHOD
MOHAMED ALAHYANE
- APPLYING DAUBECHIES WAVELET BASIS FUNCTIONS TO THE METHOD OF MOMENTS FOR EVALUATING THE LOOP ANTENNA
MOHAMED BAYJJA, MOHAMED BOUSSOUIS, NAIMA AMAR TOUHAMI
- VARIATIONAL AND NUMERICAL ANALYSIS FOR SIGNORINI'S PROBLEM WITH TRESCA'S FRICTION IN THERMO-ELECTRO-VISCO-ELASTICITY
EL-H. ESSOUFI, M. ALAOUI AND M. BOUALLALA
- NUMERICAL CALCULATIONS OF THE STM IMAGES OF LARGE MOLECULES ON METAL SURFACES, THE EXAMPLE OF RU(dbm3)
YOUNESS BENJALA, XAVIER BOUJU

Contributed Session 6

Title: BIOMATHEMATICS AND POPULATION DYNAMICS

(Chairman : Abdon Atangana/Bashir Yusuf)

- THE KNOTS OF HUMAN BRAIN
NOUREEN KHAN
- VIABLE CAPTURE BASIN FOR CHEMOTHERAPY CANCER MODEL
HALIMA ESSAADI AND MUSTAPHA SERHANI
- CARRYING CAPACITY INFLUENCE ON THE PROFIT OF FISHERMEN EXPLOITING COMPETITION-PREY-PREDATOR MARINE SPECIES
I. AGMOUR
- THE IMPACT OF PRICE ON THE BENEFIT OF FISHERMEN EXPLOITING TRI-TROPHIC PREY-PREDATOR MARINE SPECIES
M. BENTOUNSI
- COMPLETE GLOBAL STABILITY FOR AN SIR EPIDEMIC MODEL WITH TIME DELAY AND VACCINATION
LAMRANI ALAOUI ABDESSLEM
- MATHEMATICAL MODELING FOR THE SPREAD AND CONTROL OF POLIO VIRUS INCORPORATING IMMIGRATION AND VACCINATION
G.BOLARIN, I.OMATOLA, C.E.ODOAND,M.A.PHILIP

- A PRIORI ERROR ESTIMATES FOR A FINITE VOLUME SCHEME APPLIED TO A REACTION-DIFFUSION EQUATION IN POPULATION DYNAMICS
A. EL HARRAK, A. BERGAM, R. MCHICH, P. AUGER, D AND T. NGUYEN-HUU

Contributed Session 7

Title: Numerical Analysis & optimization

(Chairman : Mohammed Seaid/Hassan El Amri)

- ERROR ESTIMATES FOR A MODIFIED HERMITE INTERPOLANT ON THE SIMPLEX
OUTMANE NOUISSER, BENAÏSSA ZERROUDI
- MULTIPLE REDUCED GRADIENT METHOD FOR LINEARLY CONSTRAINED MULTIOBJECTIVE OPTIMIZATION PROBLEMS
M. EL MOUDDEN AND A. EL GHALI
- BLOCK NYSTROM TYPE METHOD AND ITS BLOCK EXTENSION FOR INITIAL AND BOUNDARY VALUE PROBLEMS
ADEYEFA, E.O.
- INFLUENCE OF REDUCED LOCALLY STABILIZATION OF Q1-Q0 ON SOME FAST ITERATIVE SOLVERS FOR THE GENERALIZED STOKES PROBLEM
ALIMA CHIBANI, NASSERDINE KECHKAR
- OPTIMAL NUMBER OF SCHUR SUBDOMAINS: APPLICATION TO SEMI-IMPLICIT FINITE VOLUME DISCRETIZATION OF SEMILINEAR REACTION DIFFUSION PROBLEM
SAMIR KHALLOUQ AND NABILA NAGID
- OPTIMIZED SCHWARZ WAVEFORM RELAXATION FOR A NONLINEAR DEGENERATED REACTIVE TRANSPORT
A. TAAKILI, M. M. ZARROUK
- NONSMOOTH NEWTON'S METHOD FOR DISCRETIZED STATE CONSTRAINED OPTIMAL CONTROL PROBLEM GOVERNED BY CONVECTION-DIFFUSION EQUATION
KHEIRA MOSTEFA HANCHOUR, BOUBAKEUR BENAHMED
- FINITE ELEMENT METHOD COUPLED WITH TWO-GRID METHOD FOR SOLVING ANTIPLANE CONTACT PROBLEM: CODES IN MATLAB
*MOHAMED DALAH,, HACENE CHAOUCHE SOUMEYA, AMMAR DERBAZI
AMAR MEGROUS, BOUDHDOUR ALLAOUA*
- COMPUTATION OF THE INVERSE FUNCTION IN B-SPLINE REPRESENTATIONS AND SOME APPLICATIONS
A. EL HILALI, A. MONIR, H. MRAOUI

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- JACOBIAN SMOOTHING NEWTON'S METHOD FOR NONLINEAR SEMI-DEFINITE PROGRAMMING
AMINA ALLOUN, BOUBAKEUR BENAHMED

Contributed Session 8

Title: Analysis of Partial Differential Equations

(Chairman : Zakaria El Allali / Lotfi Mouhadjer)

- A SEMILINEAR PARABOLIC PROBLEM WITH SINGULAR TERM AT THE BOUNDARY
B. ABDELLAOUI, K. BIROUD, AND A. PRIMO
- EXISTENCE OF ENTROPY SOLUTIONS FOR SOME NONLINEAR PROBLEMS IN MUSIELAK-ORLICZ SPACES
ABDELMOUJIB BENKIRANE, ABDESLAM TALHA
- EXISTENCE RESULTS FOR A DIRICHLET BOUNDARY VALUE PROBLEM INVOLVING THE $p(x)$ -LAPLACIAN OPERATOR
MUSTAPHA AIT HAMMOU AND ELHOUSSINE AZROUL
- AN EXISTENCE RESULT FOR A STRONGLY NONLINEAR PARABOLIC EQUATIONS WITH NONSTANDARD GROWTH
M. AIT HAMMOU, E. AZROUL, B.LAHMI
- NON-EXISTENCE OF GLOBAL SOLUTIONS FOR A NONLINEAR BEAM OF TYPE DE KIRCHHOFF WITH BOUNDARY DAMPING
SORAYA LABIDI
- CARLEMAN ESTIMATES AND INVERSE PROBLEM FOR DEGENERATE/SINGULAR PARABOLIC SYSTEMS
B. ALLAL, A. HAJJAJ, L. MANIAR, J. SALHI

Contributed Session 9

Title : Fractional calculus and applications

(Chairman : Mohammed Al-Refai/ Ali Boutoulout)

- FRACTIONAL DIFFERENTIAL EQUATIONS INVOLVING CAPUTO FRACTIONAL DERIVATIVE WITH MITTAG-LEFFLER NON-SINGULAR KERNEL: COMPARISON PRINCIPLES AND APPLICATIONS
MOHAMMED AL-REFAI
- A STUDY OF HYPERBOLIC FRACTIONAL DIFFERENTIAL EQUATION WITH PURELY INTEGRAL CONDITIONS
AHCENE MERAD
- FRACTIONAL COMPLEX OUTPUT STABILIZATION FOR A CLASS OF DISTRIBUTED BILINEAR SYSTEMS
ZITANE HANAA, LARHRISSI RACHID, BOUTOULOUL ALI

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- STABILITY ANALYSIS OF A FRACTIONAL ORDER MODEL FOR HIV INFECTION WITH ADAPTIVE IMMUNE RESPONSE AND NONLINEAR INCIDENCE RATE
BOUKHOUMA ADNANE, KHALID HATTAF, AND NOURA YOUSFI
- NOVEL MODEL BASED ON THE FRACTIONAL DERIVATIVE FOR IMAGE DENOISING
BEN-LOGHFYRY ANOUAR

Contributed Session 10

**Title: Combinatorics, Discrete Mathematics and Computing
(Chairman: Ayse Dilek Maden /Khalid El Yassini)**

- BOUNDS ON THE SZEGED AND THE LAPLACIAN SZEGED ENERGY OF GRAPHS
EZGI KAYA AND AYSE DILEK MADEN
- NEW BOUNDS FOR THE NUMBER OF SPANNING TREES OF GRAPHS
AYSE DILEK MADEN
- REAL QUADRATIC NUMBER FIELDS WITH METACYCLIC TOWER
SAID ESSAHEL, AHMED DAKKAK AND ALI MOUHI
- ORTHOGONAL RECTANGULAR PACKING PROBLEM
DAHMANI ISMA AND OUAFI RACHID
- IMAGING AND BLIND DECONVOLUTION-DETERMINISTIC METHODS
LAAZIRI BOUCHRA
- PARALLEL METAHEURISTIC TO SOLVE AN NP-COMPLETE PROBLEM
YASSINE MOUMEN, OTMAN ABDOUN, AND ALI DAANOUN
- THE STATISTICAL ANALYSIS OF THE RELATIONSHIP BETWEEN RAW MILK CHARACTERISTICS AND RHEOLOGY OF THE CURD PASTE, OBTAINED BY MIXED COAGULATION OF MILK PRODUCTION OF DAIRY COWS.
ACHRAF BOUISFI
- DATA ANALYSIS METHODS FOR BIG DATA
ABDALLAH ABARDA, YOUSSEF BENTALEB, HASSAN M HARZI
- ON P-2-BEZOUT RINGS
HAITHAM EL ALAOU

Contributed Session 11

Title: Operations Research Optimization and Cryptography (Chairman : Moha Hajar/ Lahcen El Bermi)

- CHARACTERIZATION OF TREES WITH UNIQUE MINIMUM GLOBAL OFFENSIVE ALLIANCE SETS
MOHAMED BOUZEFRANE, MOHAMED ZAMIME, ISMA BOUCHEMAKH, AND NOUREDDINE IKHLEF-ESCHOUF
- OPTIMIZED APPROACH BASED ON HEURISTICS FROM NATURE FOR HARD COMBINATORIAL OPTIMIZATION PROBLEMS
OTMAN ABDOUN
- NON-COOPERATIVE GAME FOR DRHT TOPOLOGY IN DTN NETWORK
EL ARBI ABDELLAOUI ALAOUI, HANANE ZEKKORI , SAID AGOUJIL
- IMPLEMENTATION OF THE VEHICULAR OCCUPANCY-EMISSION RELATION USING A B-SPLINE COLLOCATION METHOD
SOFIYA CHERGUI, SAID AGOUJIL, ABDERRAHMAN BOUHAMIDI, YOUSSEF QARAAI
- A NOVEL APPROACH TO SECURE DIGITAL SIGNAGE BASED HYBRID CRYPTOGRAPHY
HICHAM HAFIDI ALAOUI , FATIMA AMOUNAS , LAHCEN EL BERMI
- ELECTROCARDIOGRAM SEPARATION
SAID ZIANI, ATMAN JBARI, LARBI BELARBI
- PAIRED B-DOMATIC NUMBERS OF GRAPHS
MOHAMMED BENATALLAH
- ADAPTATION OF TRAINING WITHIN A VIRTUAL ENVIRONMENT FOR TRAINING BASED ON FUZZY LOGIC : A COMPARATIVE STUDY
FAHIM MOHAMED, JAKIMI ABDESLAM AND EL BERMI LAHCEN

Contributed Session 12

Title: FUNCTIONAL AND HARMONIC ANALYSIS (Chairman : Abdelaziz Tajmouati/Mustapha Laayouni)

- COMMON FIXED POINT THEOREMS UNDER A QUITE RECENT CONCEPT
H. BOUHADJERA

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- BEURLING'S THEOREM FOR THE TWO-SIDED QUATERNION FOURIER TRANSFORM
YOUSSEF ELHAOUI AND SAID FAHLAOU
- ON THE UNIFORM ERGODIC THEOREM IN INVARIANT SUBSPACES
A. TAJMOUATI, A.EL BEKKALI, F. BARKI
- FIXED POINT THEOREMS FOR SET VALUED CARISTI TYPE IN PROBABILISTIC NORMED LOCALLY CONVEX SPACES
M.EDRAOUI, M.AAMRI, S.LAZAIZ
- NODAL SOLUTION OF PANEITZ TYPE EQUATION BOUGHAZI HICHEM LOCALIZED SVEP, PROPERTY (UW₂) AND BROWDER TYP,
M. KACHAD

Poster Session:

1. A SEMILINEAR PARABOLIC PROBLEM WITH SINGULAR TERM AT THE BOUNDARY
B. ABDELLAOUI, K. BIROUD, AND A. PRIMO
2. ASYMPTOTIC BEHAVIOR OF AN AGE-STRUCTURED POPULATION MODEL WITH DIFFUSION.
MAHLIA ZOULEYKHA
3. AN APPROXIMATE METHOD FOR SOLVING A CLASS OF LINEAR VOLTERRA INTEGRO-DIFFERENTIAL EQUATIONS
H. LAIB1, A. BELLOUR2, AND A. BOULMERKA3
4. AMELIORATION DU ROUTAGE DANS LES RESEAUX AD HOC ET DTN: MODELISATION STOCHASTIQUE
M. LAARIF, Y. QARAAI & S. AGOUJIL
5. DENSITY FUNCTIONAL THEORY CALCULATIONS OF STRUCTURAL, ELECTRONIC, OPTICAL AND THERMAL PROPERTIES OF GUGATE₂ TERNARY CHALCOPYRITE SOLAR CELLS METERIALS.
R. MHADJOUBI, S.TOUAM, S.CHELLI, H. MERADJI, S.GHEMID
6. THOWARDS USING SPECTRAL CLUSTERING IN GRAPH MINING
Z. AIT EL MOUDEN, R. M. TAJ, A. JAKIMI, M. HAJAR
7. AIRY WAVE PACKET FOR A PARTICLE IN ATIME-DEPENDENT LINEAR POTENTIAL
MOUNIRA . BERREHAIL, NADJET BENCHIHEUB

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8. SYMMETRY ANALYSIS OF NATURAL CONVECTION IN UNSTEADY COUETTE FLOW
AMTOUT TARIK, ER-RIANI MUSTAPHA
9. AN MDA-BASED OBJECT-ORIENTED FORWARD/REVERSE ENGINEERING STATE MACHINES APPROACH
M.H. AABIDI, E. BOUZIANE, C. BAIDADA, AND A. JAKIMI
10. OPTIMAL POWER FLOW PROBLEM SOLUTION USING TRUST-REGION ALGORITHM
E.TALBI, H.ABAALI AND R.SKOURI
11. PAINLEVE ANALYSIS AND INTEGRABILITY OF THE TRAPPED IONIC SYSTEM
J.KHARBACH, M. BENKHALI, I.EL FAKKOUSY, W. CHATAR¹, A. SALI, A. REZZOUK, AND M. OUAZZANI JAMIL
12. INTEGRALS OF MOTION FOR THE THREE-DIMENSIONAL GENERALIZED HENON-HEILES HAMILTONIAN
J.KHARBACH, I.EL FAKKOUSY, M. BENKHALI, W. CHATAR, A. SALI, A. REZZOUK, AND M. OUAZZANI JAMIL
13. FRACTIONAL ORDER CONTROLLER DESIGN FOR AN UNMANNED AERIAL VEHICLE (UAV)
TAHA ENNACIRI, NABIL MRANI, AHMED EL ABBASSI AND JAOUAD FOSHI
14. THE DYNAMICS CORRELATIONS AMONG OIL PRICE AND STOCK MARKET, USING UNIVARIATE AND BIVARIATE GARCH(1,1) MODELS
AMIN GUEROUAH, HALIM ZEGHDOUDI, HOUSSEM EDDINE KHOCHEMANE.
15. NEW MODELS IN INCOMPRESSIBLE FLOW
S-BOUZALMAT, A-HJOUJI, M-JOURHMANE, J-EL - MEKKAOUI
16. ADAPTIVE HYBRID ACQUISITION OF PN SEQUENCES USING ANTENNA DIVERSITY FOR DS-CDMA SYSTEMS
LATIFA HACINI AND AMEL AISSAOUI
17. STUDY AND MODELING OF HEAT TRANSFER IN PHOTOVOLTAIC PANEL COUPLED WITH PHASE CHANGE MATERIAL
IBTISSAM LAMAAMAR, AMINE TILIOUA, MOSTAPHA YAHIAOUI
18. ETUDE EXPERIMENTALE ET SIMULATION NUMERIQUE DES SPECTRES DE RPE DES IONS Mn^{2+} DANS DES VERRES PREPARES PAR LA METHODE SOL-GEL
EI MOSTAPHA YAHIAOUI, MUSTAPHA HADDAD, ABDELMAJID DAYA
19. OPTIMAL POWER FLOW PROBLEM SOLUTION USING TRUST-REGION

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ALGORITHM

E.TALBI, H.ABAALI AND R.SKOURI

20. FRACTIONAL ORDER CONTROLLER DESIGN FOR AN UNMANNED AERIAL
VEHICLE (UAV)

TAHA ENNACIRI, NABIL MRANI, AHMED EL ABBASSI AND JAOUAD FOSHI

21. CHAOS CONTROL OF A FRACTIONAL DERIVATIVE CHEMICAL CHAOTIC
SYSTEM VIA TIME-DELAYED FEEDBACK CONTROL METHOD

ELIDRISSI MOHAMED, ZAKIA HAMMOUCH, AND TOUFIK MEKKAOUI

22. EFFECT OF THE AC MAGNETIC FIELD ON THE DYNAMICS MAGNETIC

AMINA BENKADDOUR, IMEN BENKADDOUR, YOUSRA BENKADDOUR

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