FIRAT ÜNİVERSİTESİ 1975

جامعة مولاي إسماعيل
UNIVERSITÉ MOULAY ISMAÏL

كلية العلوم والتقنيات
FACULTÉ DES SCIENCES ET TECHNIQUES

2ⁿᵈ INTERNATIONAL CONFERENCE ON COMPUTATIONAL MATHEMATICS AND ENGINEERING SCIENCES - CMES2017

20-22 May 2017, Istanbul, TURKEY

PROGRAMME BOOK

MESSAGE FROM THE GENERAL CHAIRS

Dear Conference Attendees,

We would like to welcome you to the **2nd International Conference on Computational Mathematics and Engineering Sciences (CMES-2017)** in Istanbul, Turkey. This year, the conference program includes 163 extended abstracts selected by the Program Committee from a number of 236 submissions received in response to the call for papers. The program features keynote talks by seven distinguished speakers: Kalyan Chakraborty of Harish Chandra Research Institute Allahabad, Necdet Bildik of Celal Bayar University, Abdellah Rababah of Jordan University, Rifat Colak of Firat University, Abdon Atangana of The Free State University, Dumitru Baleanu of Cankaya University, Devendra Kumar of Rajasthan University and Giri Debasis of Haldia Institute of Technology. The conference also includes contributed sessions, several posters and research highlights.

We would like to thank the Program Committee members and external reviewers for volunteering their time to review and discuss submitted abstracts. We would like to extend special thanks to the Honorary, Scientific and Organizing committees for their hard work in making CMES2017 a successful event. Last but not least we would like to thank all authors for presenting their work at the conference. We hope that you will find the CMES2017 technical program interesting and intellectually stimulating, and that you will enjoy meeting with and interacting with researchers from around the world.

Zakia Hammouch, FST Errachidia Moulay Ismail University Morocco.

Hasan Bulut, Firat University Elazig, Turkey.

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20.5.2017
08:00-10:00	**REGISTRATION**
10:00-10:30	**OPENING CEREMONY (KAMELYA 1)**
10:30-11:00	**PLENARY LECTURE (KAMELYA 1)** **Speaker:**Prof.Kalyan Chakraborty **Title:** CLASS NUMBERS OF CERTAIN QUADRATIC FIELDS **Chair:** Prof.Necdet Bildik
11:00-11:15	**Coffee Break**
11:15-11:45	**PLENARY LECTURE (KAMELYA 1)** **Speaker:** Prof.Abdon Atangana **Title:** FRACTAL-FRACTIONAL DIFFERENTIATION AND INTEGRATION **Chair:** Prof.Rifat Colak
11:45-12:15	**PLENARY LECTURE (KAMELYA 1)** **Speaker:**Prof.Necdet Bildik **Title:** A PRACTICAL METHOD FOR ANALYTICAL EVALUATION OF APPROXIMATE SOLUTIONS OF PARTIAL DIFFERENTIAL EQUATIONS **Chair:** Prof. Hüseyin Demir
12:15-13:45	**Lunch**

HALL-1 (KAMELYA 1)		
	Chair	**Prof.Zakia Hammouch**
14:00-15:40 20.05.2017	**Presenters**	**Titles**
	M.B. Riaz	ANALYTIC SOLUTIONS OF OLDROYD-B FLUID WITH FRACTIONAL DERIVATIVES IN A CIRCULAR DUCT DUE TO TENSION ON THE BOUNDARY
	Gülnur Yel, Zeynep Fidan Koçak	ON THE EXACT SOLUTIONS OF THE FRACTIONAL (2+1)- DIMENSIONAL DAVEY-STEWARTSON EQUATION SYSTEM
	Mehar Chand, Zakıa Hammouch, And Joshua Kıddy K. Asamoah	CERTAIN FRACTIONAL INTEGRALS AND SOLUTIONS OF FRACTIONAL KINETIC EQUATIONS INVOLVING THE PRODUCT OF S-FUNCTION
	Asıf YOKUS and Hasan BULUT	NUMERICAL SIMULATION OF KDV EQUATION BY FINITE DIFFERENCE METHOD
	Duygu Dönmez Demir, Aylin Zeybek	THE NUMERICAL SOLUTION OF FRACTIONAL BRATU-TYPE DIFFERENTIAL EQUATIONS
15:40-16:00	**Coffee Break**	
	Chair	**Prof.Fevzi Erdogan**
16:00-17:40 20.05.2017	**Presenters**	**Titles**
	Onur Saldır, Mehmet Giyas Sakar, Fevzi Erdogan	LEGENDRE REPRODUCING KERNEL METHOD FOR FRACTIONAL TWO POINT BOUNDARY VALUE PROBLEM
	Gulistan Iskandarova, Dogan Kaya	SYMMETRY SOLUTION ON FRACTIONAL EQUATION
	Ayşegül Çetinkaya, İ. Onur Kıymaz , Recep Şahin, M. Baki Yağbasan, Oğuz Yağcı	ON A NEW GENERALIZATION OF RIEMANN-LIOUVILLE FRACTIONAL DERIVATIVE OPERATOR
	İ. Onur Kıymaz, Ayşegül Çetinkaya, M. Baki Yağbasan, Recep Şahin, Oğuz Yağcı	ON A NEW GENERALIZATION OF CAPUTO FRACTIONAL DERIVATIVE OPERATOR
	Abdelazize Raada, Driss Mrani, Rizwan Ul Haq	SIMULATION OF WATER-BASED MAGNETITE NANOPARTICLES BETWEEN TWO PARALLEL SURFACES WITH SUCTION/INJECTION

HALL-2 (KAMELYA 2)

	Chair	Prof.Toufik Mekkaoui	
	Presenters		**Titles**
14:00-15:40 20.05.2017	Belgin Bal-İncebacak Esen Ersoy		DEVELOPING AN ACHIEVEMENT TEST FOR FRACTION TEACHING: VALIDITY AND RELIABILITY ANALYSIS
	Nejla Gürefe, Ceren Öncül , Hasan Es		INVESTIGATION OF NUMBER SENSE ACHIEVEMENTS ON SECONDARY SCHOOL STUDENTS ACCORDING TO VARIOUS VARIABLES
	Sebahat Yetim Karaca, Özgür Altoğ		MISTAKES AND MISCONCEPTION ABOUT ''ZERO'' IN SOME TOPICS OF MATHEMATICS FOR 8TH GRADERS IN YENIMAHALLE, ANKARA
	Esen Ersoy, Belgin Bal-İncebacak		PISA QUESTION AND REASONING SKILL
	Nejla Gürefe		OPINIONS OF PROSPECTIVE MATHEMATICS TEACHERSABOUT SOME TEACHING-LEARNING MODELS USED IN MATHEMATICS CLASSES
15:40-16:00	**Coffee Break**		
	Chair	Prof. Murat Sarı	
	Presenters		**Titles**
16:00-17:40 20.05.2017	Obaid Algahtani		A NEW APPROACH TO INTERVAL MATHEMATICAL MODEL AND APPLICATIONS
	Adewale F. Lukman, Kayode Ayinde		REVIEW AND CLASSIFICATIONS OF THE RIDGE PARAMETER ESTIMATION TECHNIQUES
	Samet KOYUNCU, Gökhan BAHADIR		INVESTIGATION OF INDUCTION MOTORS MEDIUM VOLTAGE GRID CONNECTED POWER SYSTEM STABILITY ANALYSIS
	P. K. Mishra and S. Das		ELASTO-DYNAMIC RESPONSE OF CRACKED INFINITE ORTHOTROPIC ELASTIC STRIP UNDER IMPACT LOADING CONDITIONS
	Çiğdem A. BEKTAŞ, Sinan ERCAN		ON SOME PROPERTIES OF SEQUENCE SPACES DEFINED BY A SEQUENCE OF MODULUS FUNCTION

HALL-3 (KAMELYA 3)		
	Chair	**Prof.Mustafa Bayram**
	Presenters	**Titles**
14:00-15:40 **20.05.2017**	Ali Demir, Ender Başarı, Duygu Dönmez Demir	FINITE ELEMENT MODELLING OF A REINFORCED CONCRETE STRUCTURE OCCURING GROUND SETTLEMENT
	Murat Sari, Arshed A. Ahmad, Lamyaa Almashhadani	CAPTURING THE BEHAVIOR OF ADVECTION-DIFFUSION PROCESS THROUGH MONTE CARLO SIMULATION
	Mohamed Mbehou	NUMERICAL METHODS OF A MIXED PROBLEM FOR A NONLINEAR KIRCHHOFF MODEL WITH MOVING BOUNDARY
	E.Liñán-García, J. Frausto-Solís, N. Dominguez-Sarabia, Francisco H.Rodriguez	SIMULATED ANNEALING HYBRIDIZED WITH DYNAMIC PROGRAMMING APPLIED TO SOLVE THE SEQUENCE ALIGNMENT PROBLEM
	Necdet Bildik, Sinan Deniz	A NEW RELIABLE TREATMENT OF THE LANE-EMDEN TYPE EQUATIONS
15:40-16:00	**Coffee Break**	
	Chair	**Prof.Yusuf Gurefe**
	Presenters	**Titles**
16:00-17:40 **20.05.2017**	Seyma Tuluce Demiray, Hasan Bulut	ANALYTICAL SOLUTIONS OF PHI-FOUR EQUATION
	Triloki Nath, L.P. Singh	EXACT SOLUTION OF THE BLAST WAVE PROBLEM IN DUSTY GAS
	Murat Sari, Huseyin Tunc	DISCUSSION OF ADVECTION-DIFFUSION PROCESS IN FINITE ELEMENT TECHNIQUES
	Shashi Kant, Santwana Mukhopadhyay	AN INVESTIGATION ON A TWO DIMENSIONAL PROBLEM OF MODE-I CRACK UNDER AN EXACT HEAT CONDUCTION WITH A DELAY
	Abdellah Mamouni	COMMUTATIVITY THEOREMS IN RINGS WITH INVOLUTION : A SURVEY

	HALL-4 (SARDUNYA 1)	
	Chair Prof.Mikail Et	
	Presenters	**Titles**
14:00-15:40 20.05.2017	Mehmet Ali Balcı, Sibel Paşalı Atmaca, Ömer Akgüller	Poisson Bracket on Measure Chains
	Sinan ERCAN, Çiğdem A. BEKTAŞ	ON STATISTICAL CONVERGENCE OF SEQUENCES GENERATED BY THE DIFFERENCE OPERATOR OF FRACTIONAL ORDER
	M. Rhoudaf and H. Sabiki	ON A NONLINEAR EIGENVALUE PROBLEM IN MUSIELAK-ORLICZ SPACES
	Recep Şahin, M. Baki Yağbasan, Ayşegül Çetinkaya, İ. Onur Kıymaz, Oğuz Yağcı	NEW GENERALIZATIONS OF EXTENDED GAMMA AND BETA FUNCTIONS
	Oğuz Yağcı, Recep Şahin,M. Baki Yağbasan, Ayşegül Çetinkaya, İ. Onur Kıymaz	NEW GENERALIZATIONS OF GAUSS AND CONFLUENT HYPERGEOMETRIC FUNCTIONS
15:40-16:00	**Coffee Break**	
	Chair Prof.Abdellah Rababah	
	Presenters	**Titles**
16:00-17:40 20.05.2017	Meriem Henkouche	M.L.E SPEED OF CONVERGENCE IN NONLINEAR AUTOREGRESSIVE PROCESSES
	Mehmet Ali Balcı, Sibel Paşalı Atmaca, Ömer Akgüller	THE BOUNDARY CURVATURES OF GRAPH COMMUNITIES
	Mikail Et	GENERALIZED CESÀRO SUMMABLE DIFFERENCE SEQUENCE SPACES AND THEIR DUAL SPACES
	Ammar Touati Brahim,Madjid Kidouche	ROBUST SPEED OBSERVER FOR MECHANICAL SYSTEMS WITH NON-HOLONOMIC CONSTRAINTS
	Yavuz Altın, Mikail Et, Hifsi Altınok	STATISTICAL CONVERGENCE OF ORDER α IN AMENABLE SEMIGROUPS

HALL-5 (SARDUNYA 2)

	Chair	Prof. Dogan Kaya	
14:00-15:40 20.05.2017	**Presenters**		**Titles**
	M.Tuncay Gençoğlu		CRYPTANALYSIS OF APPLICATION OF LAPLACE TRANSFORM FOR CRYPTOGRAPHY
	Mehmet Karay		MODELING DISTRIBUTED WORKFLOW PROCESSES USING EXTENDED PETRI NETS
	Zehra Pınar		Combination of Lie Transformations and Auxiliary Equation Method for a Class of New KdV-Burgers-Kuramoto Type Equation
	M. Jabha, A. Elalaoui, A. Jarid		THEORETICAL STUDY OF THE ELECTRON AND PHOTOVOLTAIC PROPERTIES OF CARBAZOLE-BASED OLIGOMERS
	Gülnur Yel, Haci Mehmet Baskonus, Hasan Bulut		NOVEL STRUCTURE TO THE COUPLED NONLINEAR MACCARI'S SYSTEM BY USING MODIFIED TRIAL EQUATION METHOD
15:40-16:00	**Coffee Break**		
	Chair	Prof.Resat Yilmazer	
16:00-17:40 20.05.2017	**Presenters**		**Titles**
	A. Amrane, A. Larabi, M.S.Boucherit		SPEED SENSORLESS VECTOR CONTROL WITH A STRATEGY OF LINEARIZATION BY STATE FEEDBACK OF INDUCTION MOTOR APPLIED MODEL REFERENCE ADAPTIVE SYSTEM
	Sinan Deniz, Necdet Bildik		OPTIMAL PERTURBATION ITERATION METHOD FOR SOLVING DELAY DIFFERENTIAL EQUATIONS
	Basant K. Jha, Muhammad L. Kaurangini		UNSTEADY FREE-CONVECTIVE EXOTHERMIC FLUID FLOW IN VERTICAL CHANNEL FILLED WITH POROUS MATERIAL
	H. Bulut, Tukur A.Sulaiman, H. M. Baskonus, T. Yazgan		NOVEL HYPERBOLIC BEHAVIORS TO SOME IMPORTANT MODELS ARISING IN QUANTUM SCIENCE
	Cem Onat, Mahmut Daskin,Abdullah Turan		GAIN SCHEDULING LINEAR MODEL OF AN ELECTRO-HYDRAULIC ACTUATOR

HALL-6 (SARDUNYA 3)		
	Chair	**Prof.Mehmet Bektas**
	Presenters	**Titles**
14:00-15:40 20.05.2017	Debasis Giri, Tanmoy Maitra	A Three Factor Remote User Authentication Scheme using Collision Resist Fuzzy Extractor in Single Server Environment
	R. K. Gupta and L. P. Singh	SIMULATION OF TWO DIMENSIONAL SHALLOW WATER EQUATIONS WITH VARIABLE BOTTOM GEOMETRY USING FORCE METHOD
	Ozlem Defterli	HIDDEN SYMMETRIES WITHIN SOME NEW DERIVATIVES
	Rizwan Ul Haq	INFLUENCE OF ALIGNED MAGNETIC FIELD AND CNTS IN TWO DIFFERENT BASE FLUIDS OVER A MOVING SURFACE WITH SLIP EFFECTS
	M. Ramzan, M. Bilal	FLOW OF UNSTEADY SECONG GRADE NANOFLUID PAST A PERMEABLE SURFACE
15:40-16:00	**Coffee Break**	
	Chair	**Prof.Esen Ersoy**
	Presenters	**Titles**
16:00-17:40 20.05.2017	Hacene Chaouche Soumeya and Mohamed Dalah	THE WEAK SOLUTION OF ANTIPLANE ELECTRO-VISCOELASTIC CONTACT PROBLEM WITH REGULARIZED FRICTION LAW
	FAHIM Mohamed, JAKIMI Abdeslam, EL BERMI Lahcen, E. H. EL KINANI	PERSONALIZATION OF LEARNING SITUATIONS WITHIN A VIRTUAL ENVIRONMENT FOR TRAINING BASED ON FUZZY CLUSTERING
	Yunus ÇAKIR, Nesrin ÖZSOY	PERCEPTIONS OF HIGH SCHOOL STUDENTS TO USE MOBILE LEARNING IN MATHEMATICS COURSE
	Saleem Al-Zoubi	DEVELOPING M-LEARNING PROTOTYPE SYSTEM
	Esen Ersoy, Belgin Bal-İncebacak	THE EVALUATION OF THE PROBLEM SOLVING IN MATHEMATICS COURSE ACCORDING TO STUDENT VIEWS
19:00-21:00	**DINNER**	

21.5.2017	
09:00-09:30 21.05.2017	**INVITED SPEAKER (KAMELYA 1)** Prof. Rifat Çolak **Title:**STATISTICAL CONVERGENCE OF ORDER AND STATISTICAL BOUNDEDNES OF ORDER IN METRIC SPACES **Chair:** Prof.Debasis Giri
09:30-10:00 21.05.2017	**PLENARY LECTURE (KAMELYA 1)** **Speaker:** Prof.Abedallah Rababah **Title:** MULTI-DEGREE REDUCTION OF SAID-BALL CURVES WITH ENDPOINTS CONSTRAINTS **Chair:** Prof.Mabrouk Benhamou
10:00-10:15	**Coffee Break**
10:15-10:45 21.05.2017	**INVITED SPEAKER (KAMELYA 1)** Prof.Dumitru Baleanu **Title:**ADVANCES IN DISCRETE FRACTIONAL CALCULUS: THEORY AND APPLICATIONS **Chair:** Prof.Dr.Abdon Atangana

Hall-1 (KAMELYA 1)

	Chair	Prof. Fatih Bulut
	Presenters	**Titles**
10:50-12:30 **21.05.2017**	Mustafa Ali Dokuyucu, Ercan Çelik	ANALYSIS OF KELLER-SEGEL MODEL WITH CAPUTO AND CAPUTO-FABRIZIO DERIVATIVES
	E. H. El Kinani, A. Ouhadan	INVARIANT SUBSPACE METHOD: APPLICATION TO NONLINEAR DISPERSIVE EQUATION WITH TIME-CAPUTO-FABRIZIO FRACTIONAL DERIVATIVE
	Keziban Taş and Etibar S. Panakhov	ON THE INVERSE PROBLEM FOR DIRAC SYSTEM
	N. Boussouf , C.Benhamideche, H. Sahraoui, M. F. Mosbah	EDX analysis, microstructure and transport properties of MgO doped Bi2212 superconductors
	Dilara ALTAN KOÇ, Mustafa GÜLSU	NUMERICAL APPROACH FOR SOLVING TIME FRACTIONAL DIFFUSION EQUATION

HALL-2 (KAMELYA 2)

	Chair	Prof. Emine Misirli
	Presenters	**Titles**
10:50-12:30 **21.05.2017**	Hüseyin DEMİR, Yücel BALTÜRK	ON NUMERICAL SOLUTION OF FRACTIONAL ORDER BOUNDARY VALUE PROBLEM WITH SHOOTING METHOD
	Anum Shafiq, Faiza Naseem, Lifeng Zhao,Anum Naseem	KEROSENE OIL BASED SQUEEZING FLOW OF CARBON NANOTUBE BETWEEN TWO RIGA DISKS
	Resat Yilmazer and Okkes Ozturk	AN APPLICATION OF THE NISHIMOTO'S OPERATOR FOR THE RADIAL SCHRODINGER EQUATION
	Toufik Mekkaoui, Ebenzer Bonyah, Zakia Hammouch	A CAPUTO-FABRIZIO FRACTIONAL-ORDER NETWORK MODEL FOR ZIKA VIRUS:NUMERICAL SIMULATIONS AND DYNAMICS
	Resat Yilmazer	DISCRETE FRACTIONAL SOLUTIONS OF A CHEBYSHEV EQUATION

HALL-3 (KAMELYA 3)

	Chair	Prof.Hüseyin Demir
	Presenters	**Titles**
10:50-12:30 **21.05.2017**	Cem Onat, Mahmut Daskin, Abdullah Turan	GAIN SCHEDULING PI CONTROL OF AN ELECTRO-HYDRAULIC ACTUATOR FOR ACTIVE SUSPENSION SYSTEMS
	E. Bonyah, O. K. Okosun, M. Altaf Khan	MATHEMATICAL MODELING OF CHURCH GROWTH
	Muharrem Tuncay GENÇOĞLU	COMBINING CRYPTOGRAPHY WITH STEGANOGRAPHY
	Fouad ESSAHLAOUI , Ahmed EL ABBASSI, Rachid SKOURI	EMULATE ARTIFICIAL NEURAL NETWORK TO MAKE A DECISION IN WIRELESS SENSOR
	Samer Al Ghour	ON TWO TYPES OF COUNTABLE DENSE HOMOGENEOUS SPACES

HALL-4 (SARDUNYA 1)

	Chair	Prof. Hikmet Kemaloğlu
	Presenters	**Titles**
10:50-12:30 **21.05.2017**	Hasan Bulut, Betül Demirdağ, Haci Mehmet Baskonus	REGARDING ON THE NOVEL FORMS OF THE (3+1)-DIMENSIONAL KADOMTSEV-PETVIASHVILI EQUATION
	S. Hussain, H. F. Oztop	DOUBLE DIFFUSIVE MIXED CONVECTION IN A NANOFLUID FILLED CONFINED CAVITY HEATED FROM BOTTOM WALL
	Hamdi Houichet, Maher Moakher, Badreddine Rjaibi, Anis Theljani	A NONSTANDARD HIGHER-ORDER PDE FOR EDGE DETECTION IN MEDICAL IMAGING PROBLEMS
	Choubeila Boubechou, Ali Bouchoucha, Hamid Zaidi	Study of the Tribological Behavior of a Sliding Contact Brass-Steel Couple
	Çiğdem Lazoğlu,İsmail Gür	ESTIMATION OF EARTHQUAKE PROBABILITIES WITH NON PARAMETRIC METHODS IN SEMI-MARKOV MODEL

HALL-5 (SARDUNYA 2)

	Chair	Prof.Alaattin Esen
	Presenters	**Titles**
10:50-12:30 21.05.2017	Burak Tufan Gökmen, Tuğba Petik, Halim Özdemir	THE QUADRATICITY OF LINEAR COMBINATIONS OF A QUADRATIC AND A CUBIC MATRIX THAT COMMUTE
	Seyma Tuluce Demiray, Hasan Bulut	A NEW APPROACH FOR NIZHNIK-NOVIKOV-VESELOV SYSTEM
	Soumia Saidi	EVOLUTION PROBLEM GOVERNED BY THE SUBDIFFERENTIAL OPERATOR WITH DELAY
	Rabar Mohammed Rasul , Hasan Bulut	TAN (F(xi)/2) -EXPANSION METHOD FOR EXACT SOLUTIONS OF THE (2+1)-DIMENSIONAL POTENTIAL CALOGERO–BOGOYAVLENSKII–SCHIFF EQUATION
	Ozlem ISIK, , Ozge IRMAK DEGIRMENCI, Hasan BULUT	CLASSIFICATIONS ON THE TRAVELLING WAVE SOLUTIONS TO THE (3+1)-DIMENSIONAL GENERALIZED KP AND JIMBO-MIWA EQUATIONS

HALL-6 (SARDUNYA 3)

	Chair	Prof. Emine Nesligul Aksan
	Presenters	**Titles**
10:50-12:30 21.05.2017	Gökhan BAHADIR, Samet KOYUNCU	TRANSIENT ANALYSIS WITH THE FOUR-STEP RUNGE-KUTTA METHOD OF INDUCTION MOTOR WITH MATLAB
	Meryem Odabasi	ANALYTICAL SOLUTIONS OF THE CONFORMABLE FRACTIONAL DIFFERENTIAL EQUATIONS
	Murat Sari, Eren Dincer	VARIOUS METHODS FOR THE BURGERS EQUATION
	Tubay Kaya, Orhan Erman, Sevinç Aydın, Ökkeş Yılmaz	THE PROTECTIVE EFFECTS OF GOLDENBERRY (*Physalisperuviana* L.) EXTRACT AGAINS TO DESTRUCTIVE EFFECTS IN OF TYPE I DIABETES IN LIVER TISSUE OF RATS
	H. Bulut, Sibel Sehriban Atas, H.M.Baskonus	SOME NOVEL EXPONENTIAL AND COMPLEX STRUCTURAL PROPERTIES OF THE FISHER EQUATION ARISING IN MATHEMATICAL BIOSCIENCE

12:30-14:00	Lunch

HALL-1 (KAMELYA 1)

	Chair	Prof.Devendra Kumar
	Presenters	**Titles**
14:00-15:40 21.05.2017	Seyfollah Mosazadeh, Hikmet Kemaloglu, Emrah Yılmaz	THE STABILITY OF THE INVERSE PROBLEM WITH AN INTEGRO-DIFFERENTIAL OPERATOR
	Abdulkadir KARAKAŞ, Yavuz ALTIN	On Statistical Convergence of Fuzzy Sequences
	Hikmet Kemaloglu, Ünal İç, Tuba Gulsen	AN INVERSE NODAL PROBLEM FOR DIFFERENTIAL PENCILS WITH COMPLEX SPECTRAL PARAMETER DEPENDENT BOUNDARY CONDITIONS
	Hicham Moussa, Francisco Ortegón Gallego, Mohamed Rhoudaf	THE THERMISTOR PROBLEM: FROM WEAK SOLUTIONS TO CAPACITY SOLUTIONS IN ORLICZ-SOBOLEV SPACES
	Munevver Tuz	BOUNDARY VALUES FOR AN EIGENVALUE PROBLEM WITH A SINGULAR POTENTIAL
15:40-16:00		**Coffee Break**
	Chair	Prof. Omar Eloutassi
	Presenters	**Titles**
16:00-17:40 21.05.2017	Hakkı Duru , Akbar Barati Chiyaneh	UNIFORM DIFFERENCE METHOD FOR SINGULARLY PERTURBED DELAY SOBOLEV PROBLEMS
	Münevver Tuz and Etibar Panakhov	ON INVERSE STURM- LIOUVILLE PROBLEMS WITH SYMMETRIC POTENTIALS
	Mahmut Işık, Kübra Elif Akbaş	ON ASYMPTOTICALLY LACUNARY STATISTICAL EQUIVALENT OF ORDER A IN PROBABILITY
	S. Ali-Tahir, A. Bouhamidi, M. Sari	SYNCHRONIZATION OF IDENTICAL AND NONIDENTICAL CHAOTIC DYNAMICAL SYSTEMS
	Haci Mehmet Baskonus, Fevzi Erdogan, Arif Ozkul, Ilham Asmouh	NOVEL BEHAVIORS TO THE NONLINEAR EVOLUTION EQUATION DESCRIBING THE DYNAMICS OF IONIC CURRENTS ALONG MICROTUBULES

HALL-2 (KAMELYA 2)		
	Chair Prof. Said Sgoujil	
	Presenters	**Titles**
14:00-15:40 21.05.2017	Mikail Et, Yüksel Erol	ON DEFERRED STATISTICAL CONVERGENCE OF ORDER α OF SEQUENCES OF FUZZY NUMBERS
	Etibar Panakhov, Ahu Ercan	HALF INVERSE PROBLEM FOR A DISCONTINUOUS INTEGRO DIFFERENTIAL OPERATOR
	Abdelghani Talhaoui, Imad Manssouri, Abdellah El Hmaidi	HYBRID METHODS COUPLING STATIONARY WAVELET TRANSFORM AND ARTIFICIAL NEURAL NETWORKS FOR THE CLASSIFICATION OF HERCYNIAN GRANITOIDS BASED ON THEIR GEOCHEMICAL CHARACTERISTICS: CASE OF AOULI PLUTON (HIGH MOULOUYA, MOROCCO)
	Mehtap Lafcı and Hüseyin Bereketoğlu	ON A PARTIAL DIFFERENTIAL EQUATION WITH PIECEWISE CONSTANT MIXED ARGUMENT
	Müge Yeldan, Samet Gençgönül	EFFICIENCY ANALYSIS FOR INSURANCE COMPANY WITH DATA ENVELOPMENT ANALYSIS
15:40-16:00	**Coffee Break**	
	Chair Prof. El Hassan El Kinani	
	Presenters	**Titles**
16:00-17:40 21.05.2017	Tugcem PARTAL, Mustafa BAYRAM	STOCHASTIC RUNGE-KUTTA METHODS IN A GOMPERTZIAN STOCHASTIC MODEL
	Fouad ESSAHLAOUI, Ahmed EL ABBASSI, Rachid SKOURI	EMULATE ARTIFICIAL NEURAL NETWORK TO MAKE A DECISION IN WIRELESS SENSOR
	Hatice Aslan	APPROXIMATION PROPERTIES OF DE LA-VALLEE POUSSIN MEANS FOR SERIES BY NONLINEAR FOURIER ATOMS
	Ahu ERCAN, Etibar S. PANAKHOV	HALF INVERSE PROBLEM FOR HILL'S EQUATION
	Utku Erdoğan, Gabriel J. Lord	A FAMILY OF EFFICIENT TIME STEPPING METHODS FOR SEMI-LINEAR STOCHASTIC DIFFERENTIAL EQUATIONS

HALL-3 (KAMELYA 3)

	Chair	Prof. Hakkı Duru
	Presenters	**Titles**
14:00-15:40 21.05.2017	Zeynep Fidan Koçak, Gülnur Yel	TRIGONOMETRIC FUNCTION SOLUTIONS OF FRACTIONAL DRINFELD'S SOKOLOV -WILSON SYSTEM
	M.H Aabidi, C. Baidada, B. El Mahi, A.Jakimi, H.Ammar	BENEFITS OF REVERSE ENGINEERING TECHNOLOGIES IN SOFTWARE DEVELOPMENT MAKERSPACE
	Z.El Malki, M. Bouachrine, M. Hamidi, F.Serein-Spirau, J. P. Lère-Porte, J.M. Sotiropoulos	A NEW DONOR-π-ACCEPTOR COMPOUNDS BASED ON CARBAZOLE, THIOPHENE AND BENZOTHIADIAZOLE FOR PHOTOVOLTAIC APPLICATION AS DYE-SENSITIZED SOLAR CELLS : THEORETICAL STUDY
	M. Emre Kavgacı, Hüseyin Bereketoğlu, Özgür Aydoğmuş	WEAKLY NONLINEAR ANALYSIS OF INTEGRO-DIFFERENCE EQUATIONS FOR GROWTH-DISPERSAL MODELS
	Figen Özpınar,Fethi Bin Muhammed Belgacem	THE DISCRETE HOMOTOPY PERTURBATION SUMUDU TRANSFORM METHOD FOR SOLVING PARTIAL DIFFERENCE EQUATIONS
15:40-16:00		**Coffee Break**
	Chair	Prof. Nejla Gurefe
	Presenters	**Titles**
16:00-17:40 21.05.2017	O. Omar, H.Nourddne, Z. Younes	INCREASING THE CAPACITY OF O-MIMO SYSTEMS USING MGDM TECHNIQUE
	Fatih Selimefendigil, Hakan F. Öztop	MHD MIXED CONVECTION IN A LID-DRIVEN TRIANGULAR CAVITY FOR VARIOUS ELECTRICAL CONDUCTIVITY MODELS
	Mbarki Wajih Aouadi Saloua Zemzemi Nejib	STABILITY ANALYSIS OF DECOUPLED TIME-STEPPING SCHEMES FOR THE SPECIALIZED CONDUCTION SYSTEM/MYOCARDIUM COUPLED PROBLEM IN CARDIOLOGY
	Esen Ersoy, Emine Şendurur, İsmail Çetin	THE CREATIVITY DIMENSION OF INSTRUCTIONAL MATERIALS DESIGNED BY PROSPECTIVE TEACHERS: THE COMPARISON ACROSS DOMAINS
	M. Benhamou, H. Kaidi	EFFECTIVE PAIR-POTENTIAL BETWEEN DROPLETS WITH END-GRAFTED POLYMERS WITHIN PICKERING EMULSIONS VERSUS GRAFTING-DENSITY, SOLVENT QUALITY AND MONOMER CONCENTRATION

HALL-4 (SARDUNYA 1)

	Chair	Prof. Onur Alp Ilhan
	Presenters	**Titles**
14:00-15:40 **21.05.2017**	S. Şule Şener, Yeşim Saraç	SOLVING A PROBLEM OF OPTIMIZING THE INITIAL CONDITION IN A HEAT EQUATION
	O. A. Ilhan, Tukur A. Sulaiman and H.Bulut	On the New Solutions of (3+1)-Dimensional Modified KdV-Zakharov-Kuznetsev Equation
	Erdem Isik, Hasan Bulut, Sibel Sehriban Atas	SOME PROTOTYPE RESULTS OF THE SYMMETRIC REGULARIZED LONG WAVE EQUATION ARISING IN NONLINEAR ION ACOUSTIC WAVES
	Gülşen ORUCOVA BÜYÜKÖZ, Mustafa BAYRAM	NUMERICAL SOLUTIONS OF VECTOR STOCHASTIC DIFFERENTIAL EQUATIONS
	Yusuf Gurefe, Tolga Akturk, Yusuf Pandir	NEW FUNCTION METHOD TO SOLVE THE ZHIBER-SHABAT EQUATION
15:40-16:00		**Coffee Break**
	Chair	Prof. Mehmet Giyas Sakar
	Presenters	**Titles**
16:00-17:40 **21.05.2017**	Fatih Bulut, Ömer Oruç, Alaattin Esen	A 3-SCALE HAAR WAVELET COLLOCATION METHOD FOR SOLVING PDES
	İnci ÇİLİNGİR SÜNGÜ	Numerical Investigation on MHD Flow and Heat Transfer over an Exponentially Stretching Sheet with Viscous Dissipation and Radiation Effects
	Hasan Bulut, Hilal Arslanoglu Isik, Tukur Abdulkadir Sulaiman	ON SOME COMPLEX ASPECTS OF THE (2+1)-DIMENSIONAL BROER-KAUP-KUPERSHMIDT SYSTEM
	Hande Uslu, Murat Sari	SOLUTIONS OF DIFFERENTIAL EQUATIONS THROUGH MONTE CARLO ALGORITHMS
	Mehmet Gürcan, Sinan Çalık and Yunus Güral	SEQUENCES WITH RANDOM INDICE IN CLASSICAL BANACH SPACE

HALL-5 (SARDUNYA 2)

	Chair	Prof. Hakan Oztop
	Presenters	**Titles**
14:00-15:40 **21.05.2017**	Semiha Makinist, İbrahim Rıza Hallaç, Betül Karakuş, Galip Aydın	PREPARATION OF IMPROVED TURKISH DATASET FOR SENTIMENT ANALYSIS IN SOCIAL MEDIA
	Latife Gizem Kambur, Yusuf Gurefe	AN APPLICATION OF WEIERSTRASS TRANSFORMATION METHOD TO SOME NONLINEAR PHYSICAL PROBLEMS
	Bouchra Boudebbouz, Imad Manssouri, Ahmed Mouchtachi	USE OF A HYBRID MODEL BASED ON ARTIFICIAL NEURAL NETWORKS-RBF COUPLED TO WAVELET DECOMPOSITION FOR THE CLASSIFICATION OF OPERATING MODES: CASE OF AN INDUSTRIAL INSTALLATION
	Mehmet Giyas Sakar, Fevzi Erdogan, Onur Saldır	NON-UNIFORM HAAR WAVELET METHOD FOR SINGULARLY PERTURBED CONVECTION-DIFFUSION EQUATIONS
	Sanae Kouismi	A SCHEDULING PROBLEM FOR UNLOADINGOPERATIONS INCONTAINER TERMINAL
15:40-16:00		**Coffee Break**
	Chair	Prof. Unal Ic
	Presenters	**Titles**
16:00-17:40 **21.05.2017**	Anum Shafiq, Zakia Hammouch	RADIATIVE MHD FLOW OF SECOND-GRADE FLUID TOWARDS A STRETCHED SPHERE
	Ozan Gül, Nusret Tan	ANALYSIS OF OUTPUT VOLTAGE HARMONICSOF VOLTAGE SOURCE INVERTER USED PI AND PID CONTROLLERS OPTIMIZED WITH ITAE PERFORMANCE CRITERIA
	Mine Babaoglu and Etibar S. Panakhov	ON SOME SPECTRAL PROBLEMS FOR DIFFUSION OPERATOR
	Cemil Tunç, Osman Tunç	ON THE PROPERTIES OF SOLUTIONS TO NON-LINEAR VOLTERRA INTEGRO-DIFFERENTIAL EQUATIONS WITH MULTIPLE TIME-LAGS
	Gizel Bakıcıerler and Emine Mısırlı	THE MODIFIED SIMPLE EQUATION METHOD FOR NEW EXACT WAVE SOLUTIONS OF SOME NONLINEAR PHYSICAL EQUATIONS

	HALL-6 (SARDUNYA 3)	
	Chair Prof. Zeynep Fidan Kocak	
	Presenters	**Titles**
14:00-15:40 **21.05.2017**	Muaz Seydaoğlu, Hüseyin Koçak, Utku Erdoğan	NUMERICAL INTEGRATION OF THE AIRY-TYPE EQUATIONS
	Fevzi Erdogan, Mehmet Giyas Sakar, Onur Saldır	HIGHER ORDER DIFFERENCE SCHEMES FOR SINGULARLY PERTURBED DIFFERENTIAL EQUATIONS WITH DELAY
	Agoujil Said	A note on a numerical method for Symmetric Hamiltonian Matrices
	Alaattin Esen, Ömer Oruç, Fatih Bulut	CHEBYSHEV WAVELET METHOD FOR NUMERICAL SOLUTIONS OF PDEs
	Berat KARAAĞAÇ,N. Murat YAĞMURLU,Alaattin ESEN	A STUDY ON THE IMPROVED TAN(phi(xi)/2) EXPANSION METHOD
15:40-16:00	**Coffee Break**	
	Chair Prof.Nesrin Ozsoy	
	Presenters	**Titles**
16:00-17:40 **21.05.2017**	Djemai Naimi, Ahmed Salhi, Ahboub Dihem	A MODIFIED ALGORITHM GENETIC APPLIED TO POWER SYSTEM OPTIMIZATION
	H.M. Baskonus，Tukur Abdulkadir Sulaiman, H.Bulut	NEW SOLITARY WAVE SOLUTIONS TO THE (2+1)-DIMENSIONAL CALOGERO-BOGOYAVLENSKII-SCHI AND THE KADOMTSEV-PETVIASHVILI HIERARCHY EQUATIONS
	Anis Bel Hadj Hassin, Sinda Khalfallah	VIRTUAL CONTROL AND CRACK IDENTIFICATION: 2D HEAT EQUATION
	Cemil Tunç	ON EXPONENTIAL STABILITY OF NONLINEAR VOLTERRA INTEGRO-DIFFERENTIAL EQUATIONS WITH CONSTANT TIME-LAG
	Bilgehan GURUNLU, Serkan OZTURK	QUANTUM ENCRYPTION IN WIRELESS NETWORK TECHNOLOGY
19:30-22:30	**DINNER AND LOCAL MUSIC PROGRAM**	

22.5.2017	
09:00-09:30	**INVITED SPEAKER (KAMELYA 1)** Prof. Debasis Giri **Title:**Three Fold Security in Remote User Authentication Protocol **Chair:** Prof. Kalyan Chakraborty
09:30-10:00	**PLENARY LECTURE (KAMELYA 1)** **Speaker:**Prof.Devendra Kumar **Title:** ANALYTICAL STUDY FOR NONLINEAR FRACTIONAL DIFFERENTIAL EQUATIONS **Chair:** Prof. Dumitru Baleanu
10:00-10:20	Coffee Break

HALL-1 (KAMELYA 1)		
	Chair	**Prof. Cigdem BEKTAS**
	Presenters	**Titles**
10:20-12:00 22.05.2017	Hıfsı ALTINOK, Damla BARLAK	ON LACUNARY STATISTICAL CONVERGENCE OF ORDER β FOR SEQUENCES OF FUZZY NUMBERS
	Murat Şat	INVERSE PROBLEM FOR STURM-LIOUVILLE OPERATORWITH SINGULARITY
	Emine Nesligül Aksan, Hasan Bulut , Miraç Kayhan	SOME WAVE SIMULATION PROPERTIES OF THE (2+1) DIMENSIONAL BREAKING SOLUTION EQUATION
	N. Sotehi , W. Bouaffar	Numerical study of convective drying of porous material
	Serbay Duran, Muzaffer Askin, Tukur Abdulkadir Sulaiman	NEW SOLITON PROPERTIES TO THE OF ILL-POSED BOUSSINESQ EQUATION ARISING IN NONLINEAR PHYSICAL SCIENCE

HALL-2 (KAMELYA 2)

	Chair	Prof. M.Tuncay Gençoğlu
10:20-12:00 22.05.2017	**Presenters**	**Titles**
	Vitaliy Pronin, Petr Shkatov, Anna Sandulyak, Haci Mehmet Baskonus	TECHNOLOGIES OF A CONTINUOUS ULTRASONIC THICKNESS MEASURING
	Yusuf Pandir, Yusuf Gürefe	NEW JACOBI FUNCTION SOLUTIONS OF COMBINED KDV-MKDV EQUATION
	Anna Sandulyak, Alexander Sandulyak, Maria Polismakova, Darya Sandulyak	TWO-EXPONENTIAL MODEL MAGNETIC CONTROL OF FERROIMPURITIES IN VARIOUS ENVIRONMENTS
	Elnur Nuri, Elvin Nasibov	A Packaged Software for Solution of the Problem of Optimal Placement and Integration of Oil and Gas Platforms
	Yusuf Ali Tandogan, Yusuf Pandir	NEW MULTIPLE SOLITON SOLUTIONS OF MODIFIED KDV-KP EQUATION

HALL-3 (KAMELYA 3)

	Chair	Prof. Rizwan Ul Haq
10:20-12:00 22.05.2017	**Presenters**	**Titles**
	Gheribi Hassina, Boukebbab Salim	MEASUREMENT UNCERTAINTY ON A GEOMETRICAL SPECIFICATION IN THREE-DIMENSIONAL MEASUREMENT
	Selmahan Selim, Gozde Elver, Murat Sari	NUMERICAL BEHAVIOR OF SINGULAR TWO-POINT BOUNDARY VALUE PROBLEMS IN A COMPARATIVE WAY
	Erdal BAS,Funda Metin TURK	FRACTIONAL PROBLEM FOR DIFFUSION OPERATOR WITH IMPULSIVE CONDITION
	Erdal Bas, Ramazan Ozarslan	A NOTE ON STURM-LIOUVILLE PROBLEM FOR DIFFERENCE EQUATIONS

HALL-4 (SARDUNYA 1)		
	Chair	**Prof. Mahmut Isik**
10:20-12:00 22.05.2017	**Presenters**	**Titles**
	Petr Shkatov, Irina Lisitsyna, Anna Sandulyak, Hasan Bulut	MEASUREMENT OF DEPTH OF CLOSE LOCATED SUPERFICIAL CRACS BY ELECTROPOTENTIAL METHOD
	Ayse T. Bugatekin and Sinan Calık	ON MOMENTS GENERATING FUNCTIONS OF SAMPLE EXTREMES OF ORDER STATISTICS FROM DISCRETE UNIFORM DISTRIBUTION
	V. Antonov, R.Davidov, N. Kalinin, A. Rjahovskiy	MATHEMATICAL MODELING OF THE SYNTHESIS OF NEW MATERIALS
	Tolga Akturk, Yusuf Gurefe, Hasan Bulut	NEW FUNCTION METHOD TO THE (N+1)-DIMENSIONAL NONLINEAR PROBLEMS

HALL-5 (SARDUNYA 2)		
	Chair	**Prof. Hacı BASKONUS**
10:20-12:00 22.05.2017	**Presenters**	**Titles**
	Mehmet Bektas	AN INTEGRAL FORMULA ON THE LORENTZIAN MANIFOLD
	Mahvish Ali	Lie algebra representations and 1-parameter 2D-Hermite polynomials
	AISHA JABEEN	MULTIPLICATIVE LIE TRIPLE HIGHER DERIVATION ON UNITAL ALGEBRA
	Gökhan Gökdere	USEFUL INEQUALITIES FOR UPPER AND LOWER BOUNDS OF REPAIRABLE AGING COLD STANDBY SYSTEM

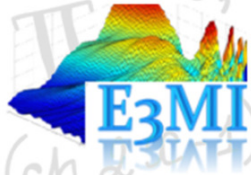| 14:00-16:00	EXCURSION TO BOSPHORUS TOUR

POSTERS PRESENTATION	
Kaya Tubay, Erman Orhan, Aydın Sevinç, Yılmaz Ökkeş	THE ANTIOXIDANT EFFECTS OF GOLDENBERRY (*Physalisperuviana* L.) EXTRACT AGAINS TO THE OXIDATIVE EFFECTS OF TYPE I DIABETES IN MUSCLE TISSUE OF RATS
Ebru Koçak, Mehmet Bektaş	THE CHARACTERIZATIONS OF NULL QUATERNIONIC CURVE IN R_1^4
Elif Karataş, Erdal Ekici	ON APPLICATIONS OF A GENERALIZED MAP
Mihriban KÜLAHCI, Fatma ALMAZ Mehmet BEKTAŞ	A New Approach for Smarandache Curves in the The Null Cone Q^3
Ayşe Arslan, Erdal Ekici	ON A SPECIAL CLOPENNESS
M. Baki Yağbasan, Recep Şahin, İ. Onur Kıymaz, Ayşegül Çetinkaya, Oğuz Yağcı	NEW GENERALIZATIONS OF SOME MULTIPLE HYPERGEOMETRIC FUNCTIONS
Seyfollah Mosazadeh, Hikmet Kemaloglu	AN INVERSE PROBLEM FOR DIRAC OPERATOR AND THE STABILITY THEOREM
Mehmet BEKTAŞ, Münevver YILDIRIM YILMAZ	A Note On Siacci's Theorem
Burak Meral, Erdal Ekici	A NEW CLOSED MAPPING
Boubeker OTHMANI, Said BOUCETTA	INVESTIGATION ON STRUCTURAL, ELASTIC AND THERMODYNAMIC PROPERTIES OF $MGNI_3$ INTERMETALLIC COMPOUND
Berfin Elma and Emine Mısırlı	NEW EXACT WAVE SOLUTIONS OF SOME EVOLUTION EQUATIONS WITH FUNCTIONAL VARIABLE METHOD
Said BOUCETTA, Boubaker OTHMANI	Thermal stability and elastic properties of Mg3CuH0.6 ternary hydride
POSTERS PRESENTATION WILL BE PRESENTED at 14.30-18.00 on 21.05.2017 and 22.05.2017	

2nd INTERNATIONAL CONFERENCE ON COMPUTATIONAL MATHEMATICS AND ENGINEERING SCIENCES - CMES2017

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