



PROGRAMME BOOK

5th INTERNATIONAL CONFERENCE ON COMPUTATIONAL MATHEMATICS AND ENGINEERING SCIENCES

08-10 JUNE
2021 Van, TURKEY

THE FIFTH INTERNATIONAL CONFERENCE ON COMPUTATIONAL MATHEMATICS AND ENGINEERING SCIENCES (CMES-2021), VAN/TURKEY, JUNE 08-10, 2021

The **Fifth International Conference on Computational Mathematics and Engineering Sciences (CMES-2021)** will be held in Van Yüzüncüyıl University from **June 08-10, 2021 in Van, Turkey**. It provides an ideal academic platform for researchers and professionals to discuss recent developments in both theoretical, applied mathematics and engineering sciences. This event also aims to initiate interactions among researchers in the field of computational mathematics and their applications in science and engineering, to present recent developments in these areas, and to share the computational experiences of our invited speakers and participants.

The Organizing Committee

©All Rights Reserved. This conference was organized by cooperation of international universities, namely including Firat University, Final International University, Akdeniz University, Moulay Ismail University, Harran University, Atatürk University, Van Yüzüncü Yıl University, Dicle University and Antalya Bilim University. No part of this book can be reproduced or utilized in any forms or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval systems, without permission from the authors.

The information provided in the papers of this book is under the responsibility of its author(s).

EDITORS

Hasan Bulut, Firat University, Elazig, Turkey

Zakia Hammouch, Ecole Normale Supérieure de Meknes, Moulay Ismail University, Morocco

Carlo Cattani, Tuscia University, Viterbo, Italy

Haci Mehmet Baskonus, Harran University, Sanliurfa, Turkey

MESSAGE FROM THE GENERAL CHAIRS



Dear Conference Attendees,

We would like to welcome you to the **5th International Conference on Computational Mathematics and Engineering Sciences (CMES-2021)** at Van Yüzüncüyıl University from June 08-10, 2021 in Van, Turkey. This year, the conference includes 300 extended abstracts, out of 300 submissions received in response to the call for papers, selected by the Program Committee. The program features keynote talks by distinguished speakers such as Abdon Atangana from Free State University, South Africa, Dumitru Baleanu, from Institute of Space Sciences, Magurele-Bucharest, Romania, Carlo Cattani from Tuscia University, Viterbo Italy, Juan Luis García Guirao from Technical University of Cartagena, Spain. Oscar Castillo from Tijuana Institute of Technology, Tijuana, Mexico, Ali Yousef from Kuwait College of Science and Technology, Kuwait, Vatan Karakaya from Yildiz Technical University, Istanbul, Turkey, Ali Rostami Photonics and Nanocrystals Research Lab (PNRL), University of Tabriz, Tabriz, Iran. The conference also comprises contributed sessions, posters sessions 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 efforts in making CMES-2021 a successful event. We would like to thank all the authors for presenting their research studies during our conference. We hope that you will find CMES-2021 interesting and intellectually stimulating, and that you will enjoy meeting and interacting with researchers around the world.

Hasan Bulut, Firat University Elazig, Turkey.

Zakia Hammouch, École Normale supérieure, Moulay Ismail University of Meknès 50000, Morocco

Harran University, Sanliurfa, Turkey

Thu Dau Mot University, Binh Duong Province, Vietnam

China Medical University Hospital Taichung 40402, Taiwan.

TOPICS

Applied Mathematics,
Financial Mathematics,
Control Theory,
Game Theory
Modeling of Bio-systems
for Optimization and Control,
Linear and Nonlinear
programming and Dynamics,
Artificial Intelligence,
Geometry and Its Applications,
Analysis and Its Applications,

Statistics and Its Applications,
Mathematics Education and Its
Applications,
Algebra and Its Applications.
Engineering Sciences
Computer Science
Information technology
Electrical and Electronic Engineering
Ordinary, Partial, Stochastic and Delay
Differential Equations
Chaos and Dynamical Systems

Numerical methods and
scientific programming
Fractional Calculus and Applications,
Cryptography and its applications
Computational Fluids mechanics,
Heat and Mass Transfers.
Economics and Econometric Studies
Topology and Its Application
Education Sciences
Economics and Econometric Studies
Topology and Its Application

COMMITTEE CHAIRS

Prof.Dr.Hasan Bulut, Firat University Elazig, Turkey

Prof.Dr.Zakia Hammouch, Ecole Normale Superieure de Meknes, Moulay Ismail University, Morocco

COMMITTEE CO-CHAIRS

Prof. Dr. Hacı Mehmet Baskonus (Harran University, Sanliurfa, Turkey)

Prof. Dr. Carlo Cattani (Tuscia University, Viterbo, Italy)

Prof. Dr. Fevzi Erdogan (Yüzüncüyıl University, Turkey)

Prof. Dr. Ercan Çelik (Atatürk University, Erzurum, Turkey)

Prof. Dr. Alaattin Esen (Inonu University, Malatya, Turkey)

HONORARY COMMITTEE

- Prof.Dr. Hamdullah Şevli (Rector of Van Yüzüncü Yıl University, Van, Turkey)
Prof.Dr. Fahrettin Göktaş (Rector of Fırat University, Elazığ, Turkey)
Prof.Dr. İsmail Yüksek (Rector of Antalya Bilim University, Antalya, Turkey)
Prof. Dr. Hüseyin Yaratın (Rector of Final International University, Girne, Cyprus)
Prof.Dr. Ömer Çomaklı (Rector of Atatürk University, Erzurum, Turkey)
Prof.Dr. Ekrem Savaş (Rector of Uşak University, Uşak, Turkey)
Prof.Dr. Mehmet Sabri Celik (Rector of Harran University, Sanliurfa, Turkey)
Prof.Dr. Vatan Karakaya (Rector of Ahi Evran University, Kırşehir, Turkey)
Prof.Dr. Talip Gül (Rector of Dicle University, Diyarbakır, Turkey)
Prof.Dr. Hossein Piri (Rector of University of Bonab, Iran)
Prof.Dr. Mohammed Amine (Director of ENS Meknes, Moulay Ismail University)
Prof.Dr. Hassane Sahbi (President of Moulay Ismail University, Morocco)
Prof. Dr. Ouazzani Jamil Mohamed (Dean of Private University of fez, Morocco)
Prof.Dr. Omar Ossouaddi (Vice President of Moulay Ismail University, Morocco)
Prof.Dr. Mikail Et (Dean of Science Faculty, Fırat University, Elazığ, Turkey)
Prof.Dr. Cemil Tunç (Dean of Science Faculty, Yüzüncüyıl University, Van, Turkey)
Prof.Dr. Etibar Penahlı (Baku State University, Baku, Azerbaijan)
Prof.Dr. Necdet Bildik (Celal Bayar University, Manisa, Turkey)
Prof.Dr. Mahmut Ergüt (Namık Kemal University, Tekirdağ, Turkey)
Prof.Dr. Adil Kılıç (Gaziantep Univeristy, Gaziantep, Turkey)
Prof.Dr. Rifat Colak (Fırat University, Elazığ, Turkey)
Prof.Dr. Vedat Asil (Fırat University, Turkey)
İbrahim Taşel (Trustees Board Member, Final International University, Gime, Cyprus)
Şevket Ertem (Trustees Board Member, Final International University, Girne, Cyprus)

ONLINE PRESENTATIONS

08.06.2021

10:00-10:30

OPENING CEREMONY (ONLINE) [Time zone: UTC+3 / Istanbul](#)

Prof. Dr. Zakia Hammouch (Chairman)

Prof. Dr. Fevzi Erdoğan

Prof. Dr. Hamdullah Şevli (Rector of Van Yüzüncü Yıl University, Van, Turkey)

Prof. Dr. Hassane Sahbi (Rector of Moulay Ismail University, Morocco)

Prof. Dr. Mohammed Amine (Director of ENS Meknes, Moulay Ismail University)

Prof. Dr. Fahrettin Göktaş (Rector of Fırat University, Elazığ, Turkey)

10:30-11:00

PLENARY LECTURE (ONLINE) [Time zone: UTC+3 / Istanbul](#)

Speaker: Prof. Abdon Atangana

Title: FRACTIONAL DIFFERENTIATION AND INTEGRATION ABOVE POWER LAW SOME NEW DEVELOPMENTS

Chair: Prof. Juan Luis Garcia Guirao

11:00-11:15

Coffee Break

11:15-11:45

PLENARY LECTURE (ONLINE) [Time zone: UTC+3 / Istanbul](#)

SPEAKER: PROF. CARLO CATTANI

Title: A REVIEW ON WAVELET FRACTIONAL CALCULUS

Chair: Prof. Fevzi Erdogan

11:45-12:00

Coffee Break

12:00-12:30

PLENARY LECTURE (ONLINE) [Time zone: UTC+3 / Istanbul](#)

Speaker: Prof. Dumitru Baleanu

Title: SOME NEW TRENDS IN FRACTIONAL CALCULUS

Chair: Prof. Abdon Atangana

09.06.2021															
10:30–11:00 09.06.2021	<p>PLENARY LECTURE (ONLINE) Time zone: UTC+3 / Istanbul</p> <p>SPEAKER: PROF.JUAN LUÍS GARCÍA GUÍRAO</p> <p>Title: SHANNON–WHITTAKER–KOTEL’NIKOV’S THEOREM GENERALIZED</p> <p>Chair: Prof.Abdon Atangana</p>														
11:00–11:15	Coffee Break														
11:15–11:45 09.06.2021	<p>PLENARY LECTURE (ONLINE) Time zone: UTC+3 / Istanbul</p> <p>SPEAKER: PROF.VATAN KARAKAYA</p> <p>Title: THE FORMATION STAGES OF MATHEMATICAL MODELING IN TERMS OF MATH PHILOSOPHY</p> <p>Chair: Prof.Ercan Celik</p>														
11:45–12:00	Coffee Break														
12:00–12:30 09.06.2021	<p>PLENARY LECTURE (ONLINE) Time zone: UTC+3 / Istanbul</p> <p>SPEAKER: PROF. OSCAR CASTILLO</p> <p>Title: OPTIMIZATION OF TYPE-2 FUZZY SYSTEMS: THEORY AND APPLICATIONS</p> <p>Chair: Prof.Mehmet Gıyas Sakar</p>														
HALL-1 (FRACTIONAL) Time zone: UTC+3 / Istanbul															
14:00–15:40 09.06.2021	<table border="1"> <tr> <td>Chair</td> <td>Prof.Dr.Mehmet Gıyas SAKAR</td> </tr> <tr> <td>Authors</td> <td>Titles</td> </tr> <tr> <td>Sinan Aslan</td> <td>ON SOME INTEGRAL INEQUALITIES VIA GENERALIZED PROPORTIONAL FRACTIONAL INTEGRAL OPERATORS</td> </tr> <tr> <td>Murat Karakaş</td> <td>Lucas Difference Sequence Spaces of Fractional Order</td> </tr> <tr> <td>Nesrin Güllüoğlu, Gülnur Yel, Hasan Bulut</td> <td>OPTICAL SOLUTIONS OF CONFORMABLE EXTENDED CALOGERO–BOGOYAVLENSKII- SCHIFF EQUATION</td> </tr> <tr> <td>Ahmet Ocak Akdemir</td> <td>NEW INTEGRAL INEQUALITIES FOR QUASI-CONVEX AND P-FUNCTIONS VIA ATANGANA–BALEANU FRACTIONAL INTEGRAL OPERATORS</td> </tr> <tr> <td>Emre Aydın</td> <td>On the Numerical Solution of the Time Fractional Newell–Whitehead–Segel Equations</td> </tr> </table>	Chair	Prof.Dr.Mehmet Gıyas SAKAR	Authors	Titles	Sinan Aslan	ON SOME INTEGRAL INEQUALITIES VIA GENERALIZED PROPORTIONAL FRACTIONAL INTEGRAL OPERATORS	Murat Karakaş	Lucas Difference Sequence Spaces of Fractional Order	Nesrin Güllüoğlu, Gülnur Yel, Hasan Bulut	OPTICAL SOLUTIONS OF CONFORMABLE EXTENDED CALOGERO–BOGOYAVLENSKII- SCHIFF EQUATION	Ahmet Ocak Akdemir	NEW INTEGRAL INEQUALITIES FOR QUASI-CONVEX AND P-FUNCTIONS VIA ATANGANA–BALEANU FRACTIONAL INTEGRAL OPERATORS	Emre Aydın	On the Numerical Solution of the Time Fractional Newell–Whitehead–Segel Equations
Chair	Prof.Dr.Mehmet Gıyas SAKAR														
Authors	Titles														
Sinan Aslan	ON SOME INTEGRAL INEQUALITIES VIA GENERALIZED PROPORTIONAL FRACTIONAL INTEGRAL OPERATORS														
Murat Karakaş	Lucas Difference Sequence Spaces of Fractional Order														
Nesrin Güllüoğlu, Gülnur Yel, Hasan Bulut	OPTICAL SOLUTIONS OF CONFORMABLE EXTENDED CALOGERO–BOGOYAVLENSKII- SCHIFF EQUATION														
Ahmet Ocak Akdemir	NEW INTEGRAL INEQUALITIES FOR QUASI-CONVEX AND P-FUNCTIONS VIA ATANGANA–BALEANU FRACTIONAL INTEGRAL OPERATORS														
Emre Aydın	On the Numerical Solution of the Time Fractional Newell–Whitehead–Segel Equations														
15:40–16:00	Coffee Break														



HALL-1 (APPLIED SCIENCES) Time zone: UTC+3 / Istanbul		
16:00-17:40 09.06.2021	Chair	Assoc. Prof.Dr.Mehmet Gıyas SAKAR
	Authors	Titles
	Seda Igret Araz	A mathematical model of Covid-19 spread with piecewise modeling
	Mustafa Kerem Özgün	Stability Analysis for The Volterra Delay Integro-Differential Equation
	Melike Karta	A New Numerical Approach for Generalized Fisher's Equation
	Haci Mehmet Baskonus, Mustafa Kayan	Regarding new wave distributions of the nonlinear integro-partial ITO differential and fifth-order integrable equations
	Haci Mehmet Baskonus, Asrin Maghidid Khudhur	On the fluctuations in the System of the Viscosity-Capillarity Regularization
HALL-2 (GEOMETRY) Time zone: UTC+3 / Istanbul		
14:00-15:40 09.06.2021	Chair	Asst. Prof. Dr. Şakir İŞLEYEN
	Authors	Titles
	Gülşen Kılınç	ON SOME GEOMETRIC PROPERTIES OF A SEQUENCE SPACE DEFINED AS THE FIELD OF A TRIANGLE MATRIX
	Fatma Bulut	Slant Helices of k-type according to extended Darboux frame in Minkowski 4-space
	Meltem Karaismailoğlu	Conformal bi-slant \wedge -submersions from Sasakian manifolds
	Buşra Aktaş	An Overview of Kinematics in Lorentz Space
15:40-16:00	COFFEE BREAK	
HALL-2 (APPLIED SCIENCES) Time zone: UTC+3 / Istanbul		
16:00-17:40 09.06.2021	Chair	Asst. Prof. Dr. Şakir İŞLEYEN
	Authors	Titles
	Serbay Duran	A study on traveling wave solutions obtained with the help of an expansion method
	Zelal Temel	Finite Difference Schemes on a Shishkin Type Mesh for Singularly Perturbed Problem with Integral Boundary Condition
	Özlem Kırıcı	Investigation of the Wave Solutions of the Double-Chain DNA Model by the Modified Exponential Function Method
	Yasin Bozkurt,	On the Josephson Nonlinear Left-handed Transmission Line
	Sibel Paşalı Atmaca, Ömer Akgüller	DISCRETE GRADIENT FIELD ON POINT SET SURFACE VIA TIME SCALE CALCULUS

HALL-3 (ENGINEERING) <i>Time zone: UTC+3 / Istanbul</i>		
14:00–15:40 09.06.2021	Chair	Prof.Dr.Şenay BAYDAŞ
	Authors	Titles
	Murat DEMİRCAN	Developing Turkish Sentiment Analysis Models Using Machine Learning and E-commerce Data
	Kemal Fidanboylu	Indoor and Outdoor Navigation Application Development with Augmented Reality Technology
	Emre Selçuk Demir	Antispiral Resonator Ground Plane Loaded Gamma () Shaped Microstrip Antenna Design
	Turgut Bahadır YALIN	DEVELOPMENT OF A PERSONALIZED SEARCH ENGINE FOR E-COMMERCE SECTOR
	İbrahim ŞENDOĞAN, Sevtap ERDEM	MACHINE LEARNING BASED CUSTOMER SEGMENTATION AND CAMPAIGN MANAGEMENT SYSTEM
15:40–16:00	COFFEE BREAK	
HALL-3 (APPLIED SCIENCES) <i>Time zone: UTC+3 / Istanbul</i>		
16:00–17:40 09.06.2021	Chair	Prof.Dr.Şenay BAYDAŞ
	Authors	Titles
	Derya Arslan	NOVEL NUMERICAL APPROACH OF SINGULARLY PERTURBED PROBLEM
	Şenay Baydaş	Bülent Karakaş KINEMATIC EQUATIONS OF A MECHANISM IN LORENTZ 3-SPACE
	Sibel Tarla	New Solutions of (3+1)-dimensional Breaking Soliton Equation and (3+1)-dimensional Shallow Water-like Equation
	Semih Çavuşoğlu, Oktay Sh. MUKHTAROV	A New Treatment of the Finite Difference Method for 2-interval Sturm-Liouville Problems
	Özlem Akgümüş	Stability and Bifurcation Analysis in a discrete-time prey predator model, and chaos control
HALL-4 (APPLIED SCIENCES) <i>Time zone: UTC+3 / Istanbul</i>		
14:00–15:40 09.06.2021	Chair	Asst. Prof.Dr.Talha ARSLAN
	Authors	Titles
	Aslı Alkan	Investigation of the Wave Solutions of the Nonlinear Partial Differential Equations with the Modified Exponential Function Method
	Şebnem Yıldız	An application of absolute matrix summability
	Mohanad Alaloush	ON EXACT SOLUTIONS OF WICK-TYPE STOCHASTIC EXTENDED KDV EQUATION
	Tuba Şekerci	PROVIDING AN ALTERNATIVE METHOD FOR COMBINING ODDS RATES
	Bilal Demir	ROSEN CONTINUED FRACTIONS AND ELEMENTS OF EXTENDED HECKE GROUPS
15:40–16:00	COFFEE BREAK	



HALL-4 (FRACTIONAL) *Time zone: UTC+3 / Istanbul*

16:00-17:40 09.06.2021	Chair	Asst. Prof.Dr.Talha ARSLAN
	Authors	Titles
	Haniffa M. Nasir, Khadijah Al Hassani	LINEAR MULTISTEP METHODS FOR FRACTIONAL INITIAL VALUE PROBLEMS WITH IMPROVED STABILITY
	İlknur Koca	A seaird pandemic prediction model with fractional differential operators with analysis and numerical scheme
	Talha Arslan	An extension of the inverse Gaussian distribution
	Ajay Kumar, Amit Prakash, Haci Mehmet Baskonus	Approximate Numerical solution of nonlinear fractional Klein-Gordon equation with Caputo-Fabrizio fractional operator
	Khadiha Al Hassani, Haniffa M. Nasir	HIGHER ORDER LINEAR MULTISTEP METHODS FOR FRACTIONAL INITIAL VALUE PROBLEMS WITH IMPROVED STABILITY

HALL-5 (APPLIED SCIENCES) *Time zone: UTC+3 / Istanbul*

14:00-15:40 09.06.2021	Chair	Dr. Fatih ULUDAĞ
	Authors	Titles
	BURAK OGUL	On the recursive sequence $x(n+1) = x(n-29)/[1+x(n-4)x(n-9)x(n-14)x(n-19)x(n-24)]$
	Ebru Elbir	BERNSTEIN SERIES APPROACH FOR NONLINEAR FINANCE SYSTEM WITH INPUT TIME DELAY
	Mine Babaoğlu	EXACT AND NUMERICAL SOLUTIONS TO THE BURGERS' AND COUPLED BURGERS' EQUATION
	Cemil İnan	The Strength and Importance of Numbers and Names and Their Influence on Our Life
	Tuğba Yazgan	On Survey of the Some Wave Solutions of the Nonlinear Schrödinger Equation in Infinite Water Depth

COFFEE BREAK

HALL-5 (APPLIED SCIENCES) *Time zone: UTC+3 / Istanbul*

16:00-17:40 09.06.2021	Chair	Prof.Dr.Esin İnan ESKİTAŞÇIOĞLU
	Authors	Titles
	Aslıhan Demir	On the Mixture of Garima and Lomax Distributions
	Naiyer Mohammadi LANBARAN, Ercan CELIK	Comparison of Modal Assurance Criteria with Fuzzy Similarity to Detect Damage to Structures
	İsmail Gür	Improving the Mortality Prediction in Intensive Care Unit: Feature Contribution Approach with SuperLearner Algorithm
	Ozan Ali Çağraşan	Fekete-Szegő Inequality for A Subclass of Bi-Univalent Functions Defined by Horadam Polynomials
	Merve Zeynep Geçmen, Ercan Çelik, Mustafa Ali Dokuyucu	Numerical Solution of Volterra Integral Equations with Hosoya Polynomials



HALL-6 (ANALYSIS) <i>Time zone: UTC+3 / Istanbul</i>		
14:00–15:40 09.06.2021	Chair	Asst. Prof.Dr.Yener ALTUN
	Authors	Titles
	Ayşe Çiğdem Yar	Some Applications of Green's Function on Time Scales
	Enes Ata	NEW GENERALIZATIONS OF SRIVASTAVA HYPERGEOMETRIC FUNCTIONS AND THEIR INTEGRAL REPRESENTATIONS
	Mehmet Çağrı Yilmazer	On f-Deferred Statistical Convergence of Sequences of Sets
	Koray İbrahim Atabey	$2^{\Delta}(\Delta^{\wedge})$ - STATISTICAL CONVERGENCE OF ORDER Δ AND STRONGLY $2^{\Delta}(\Delta^{\wedge} (p))$ -SUMMABILITY
	Fatma SAĞSÖZ, Halit ORHAN	On q-starlike and q-convex functions defined by using the function f
15:40–16:00	COFFEE BREAK	
HALL-6 (ANALYSIS) <i>Time zone: UTC+3 / Istanbul</i>		
16:00–17:40 09.06.2021	Chair	Asst. Prof.Dr.Yener ALTUN
	Authors	Titles
	Deniz Yılmaz	SOME PROPERTIES OF A STURM-LIOUVILLE PROBLEM
	Hayatem Hamal, Pembe Sabancıgil	WEIGHTED APPROXIMATION FOR KANTOROVICH TYPE q-BALAZS-SZABADOS OPERATORS
	Emre Sanır	Gauss quadrature rule of integration
	Derya Sekman	On Fixed Point Of Some Generalized Multivalued Mapping Under Function Sequences
	İbrahim Adalar	A Half-Inverse Problem for a Quadratic Pencil of Sturm-Liouville Operator with Eigenparameter-Dependent Boundary Condition
HALL-7 (APPLIED SCIENCE) <i>Time zone: UTC+3 / Istanbul</i>		
14:00–15:40 09.06.2021	Chair	Prof.Dr.Musa ÇAKIR
	Authors	Titles
	Uğur Bayrakçı	Construction of Soliton Solutions for Chaffe-Infante Equation
	Mehmet Vural	A NEW SUBSTITUTION METHOD FOR NON-LINEAR BLOCK ENCRYPTION
	Cemil İnan, Serdar ERKUŞ	THE IMPACT OF GAME-BASED ACTIVITIES ON MATHEMATICAL ACHIEVEMENTS AND PERMANENT LEARNING OF STUDENTS
	Serkan Okur, Muhammed Yiğider	APPLICATION OF THE CONFORMABLE REDUCED DIFFERENTIAL TRANSFORM METHOD TO FRACTIONAL ORDER NONLINEAR DIFFERENTIAL EQUATIONS
	Mehmet Güner	MATHEMATICAL ANALYSIS OF THE MI MOMENT IN ODD-MASS DEFORMED NUCLEI
15:40–16:00	COFFEE BREAK	



HALL-7 (APPLIED SCIENCES) <i>Time zone: UTC+3 / Istanbul</i>		
16:00-17:40 09.06.2021	Chair	Prof.Dr.Musa ÇAKIR
	Authors	Titles
	Nigar Yıldırım Aksoy	ON NUMERICAL SOLUTION OF A NONLINEAR SCHRODINGER EQUATION INCLUDING MOMENTUM OPERATOR
	Özgül İlhan	A NUMERICAL TEST FOR A NEAR WALL MODEL
	Abdullah Çağman	Repdigits as Product of Lucas and Pell numbers
	Mehmet KARAKOÇ	AN INTRODUCTORY STUDY ON THE RELATIONSHIP BETWEEN CATEGORY THEORY (CT) AND OBJECT-ORIENTED PROGRAMMING (OOP) PARADIGM
	Kh. R. Mamedov, Ulviye Demirbilek	AN EXPANSION FORMULA FOR A STURM-LIOUVILLE EIGENVALUE PROBLEM
HALL-8 (GEOMETRY) <i>Time zone: UTC+3 / Istanbul</i>		
14:00-15:40 09.06.2021	Chair	Assoc. Prof. Dr. Onur SALDIR
	Authors	Titles
	Aykut Has	Various Characterizations for Mannheim Curves in Three-Dimensional Euclidean Space
	Makbule Kaplan	Convergence Theorems for Multivalued Nonexpansive Mapping in Kohlenbach Hyperbolic Space
	Sibel Paşalı Atmaca	HELICES ON ELECTRICAL NETWORKS
	Beyhan Yılmaz	CURVES ACCORDING TO ORTHOGONAL ALTERNATIVE FRAME
	İsrafil Okumuş	AT THE INFINITY POINT OF THE ELLIPTIC CURVES
15:40-16:00	COFFEE BREAK	
HALL-8 (APPLIED SCIENCES) <i>Time zone: UTC+3 / Istanbul</i>		
16:00-17:40 09.06.2021	Chair	Assoc. Prof. Dr. Onur SALDIR
	Authors	Titles
	Akbar BARATI CHIYANEH	COMPARISON OF NUMERICAL METHODS FOR SOLVING STOCHASTIC DIFFERENTIAL EQUATIONS WITH TIME DELAY
	Afshin Barati Chiyaneh	A FINITE DIFFERENCE ANALYSIS OF BOUNDARY VALUE PROBLEMS FOR SINGULARLY PERTURBED EQUATIONS ON BAKHVALOV MESH
	Tolga Aktürk	Investigation of Exact Wave Solutions of the Exponential Nonlinear Klein-Gordon Equation
	Onur Sabur	Coefficient Inequalities for A Subclass of Bi-Univalent Functions Defined by Pell-Lucas Polynomials
	Ahmet Hamdi Avşar	SOME TRIGONOMETRIC APPROXIMATION THEOREMS IN WEIGHTED ORLICZ SPACES

HALL-9 (APPLIED SCIENCES) Time zone: UTC+3 / Istanbul		
14:00–15:40 09.06.2021	Chair	Assoc. Prof.Dr.Necati ERDOĞAN
	Authors	Titles
	Uğur Bayrakçı	Novel Solutions of Perturbed Boussinesq Equation
	Bilge Varol	Fuzzy-stochastic mathematical programming approach for an integrated lot-sizing and supplier selection problem with quantity discounts and backordering options
	Övgü Gürel Yılmaz	On a Sequence of Linear Positive Operators Associated with k-Beta Function
	Karmina Ali	Soliton Solutions to the Resonant Davey–Stewartson Equations via Bernoulli sub-equation method
	Hajar İsmael	New dark, bright and dark-bright solutions to the resonant Davey–Stewartson equations
15:40–16:00	COFFEE BREAK	
HALL-9 (APPLIED SCIENCES) Time zone: UTC+3 / Istanbul		
16:00–17:40 09.06.2021	Chair	Assoc. Prof.Dr.Necati ERDOĞAN
	Authors	Titles
	Tuğçe Kunduracı	On texture graph
	Adem Irmak	On the Solution of a Parabolic Equation Using the Ritz Method
	Mustafa Mızrak	CHIRPED W-SHAPED OPTICAL SOLITONS OF THE RANGWALA-RAO EQUATION
	Çağlar Gürkan	Machine Learning Approaches to Sentiment Analysis Using Tweets About AstraZeneca COVID-19 Vaccine
	Emrehan Yavşan	Development Processes of a Capacitive Rotary Encoder
HALL-10 (APPLIED SCIENCES) Time zone: UTC+3 / Istanbul		
14:00–15:40 09.06.2021	Chair	Prof.Dr.Hakkı DURU
	Authors	Titles
	Serbay Duran	TRAVELING WAVE SOLUTIONS OF NONLINEAR PARTIAL DIFFERENTIAL EQUATION
	Seher BODUR	DECOMPOSITION AND DECOUPLING ANALYSIS OF CARBON DIOXIDE EMISSIONS FROM ECONOMIC GROWTH IN OECD OVER 1990–2018
	BURAK OGUL	On the recursive sequence $x(n+1) = x(n-23)/[1+x(n-3)x(n-7)x(n-11)x(n-15)x(n-19)]$
	Ali Kanso	Efficient Image Encryption Scheme Based on 4-Dimensional Chaotic Maps
	Miraç Kayhan	WAVE SIMULATIONS IN LIQUIDS CONTAINING GAS BUBBLES
15:40–16:00	COFFEE BREAK	



HALL-10 (COMPUTER SCIENCES) <i>Time zone: UTC+3 / Istanbul</i>		
16:00-17:40 09.06.2021	Chair	Prof.Dr.Hakkı DURU
	Authors	Titles
	Çağlar Gürkan	Time Series Forecasting of Ethereum Prices Using Deep Learning Methods
	Bilge Varol	Multi-objective fuzzy-stochastic mathematical programming approach for flexible job shop scheduling problem with sequence dependent setup times
	Okan DEMİRKAN	Forecasting Wind Energy Using a New Machine Learning Approach
	Sevda Özdemir Çalığışu	ITÔ STOCHASTIC DIFFERENTIAL EQUATION MODELING FOR BITCOIN DATA
	Akın Kanlı	COMPUTING THE DIFFERENTIAL OF SUNFLOWER GRAPHS
HALL-11 (APPLIED SCIENCE) <i>Time zone: UTC+3 / Istanbul</i>		
14:00-15:40 09.06.2021	Chair	Assoc. Prof.Dr. Turgut HANOYMAK
	Authors	Titles
	Hayri Topal	On the vector-valued Banach algebra $I_p(X,A)$
	Erhan Ozdemir, Ercan Celik	The Solution of First Kind Linear Volterra Integral Equations with ZZ Transform
	Intikhab A. Ansari, C. V. Rao	ESTIMATION OF TRANSMISSION RISK AND CONTROL OF COVID-19: A MATHEMATICAL MODELLING STUDY
	Turgut HANOYMAK , Ömer KÜSMÜŞ	NEW TRENDS IN BLOCKCHAIN TECNOLOGY AND A GLANCE AT CRYPTOCURRENCIES
	Sare KILIÇ	THE EFFECT OF DIFFERENT SEARING DEGREES ON THE COLOR PROPERTIES OF COOKED MEAT
HALL-11 (APPLIED SCIENCE) <i>Time zone: UTC+3 / Istanbul</i>		
16:00-17:40 09.06.2021	Chair	Assoc. Prof.Dr. Turgut HANOYMAK
	Authors	Titles
	Emetullah YAĞIZ	ON HERMITE-HADAMARD TYPE INEQUALITIES FOR (g,h) -PREINVEX DOMINATED FUNCTIONS
	Tolga Aktürk	Analysis of Wave Solutions of The Nonlinear Model Equation with New Function Method
	Emetullah YAĞIZ	HERMITE-HADAMARD TYPE INTEGRAL INEQUALITIES FOR PREINVEX DOMINATED FUNCTIONS and PREINVEX DOMINATED FUNCTIONS
	Fayık Değirmenci	Extractions of deeper properties of the Conformable Gross– Pitaevskii Equation via two powerful approaches
	Hafida Laib	TAYLOR COLLOCATION METHOD FOR SOLVING HIGH ORDER DIFFERENTIAL EQUATIONS AND DELAY DIFFERENTIAL EQUATIONS
19:00-21:00	DINNER (RÖNESANS LIFE OTEL)	

10.06.2021

10:30-11:00	PLENARY LECTURE (ONLINE) Time zone: UTC+3 / Istanbul	
	Speaker: Prof.Ali Yousef	
	Title: ASYMPTOTIC CHARACTERISTICS OF THE THREE-STAGE PROCEDURE WHEN THE NORMAL COEFFICIENT OF VARIATION IS KNOWN WITH SIMULATION	
	Chair: Prof. Fevzi Erdogan	
11:00-11:15	COFFEE BREAK	
11:15-11:45	PLENARY LECTURE (ONLINE) Time zone: UTC+3 / Istanbul	
	Speaker: Prof.ALI ROSTAMI	
	Title: MATHEMATICAL MODELING OF HIGH-EFFICIENCY SOLAR CELLS USING SELECTIVE ENERGY CONTACTS	
	Chair: Prof.Zakia Hammouch	
11:45-12:00	COFFEE BREAK	
12:00-12:30	PLENARY LECTURE (ONLINE) Time zone: UTC+3 / Istanbul	
	Speaker:	
	Title:	
	Chair: Prof.Abdon Atangana	
12:30-14:00	LUNCH (VAN YUZUCUYIL UNIVERSITY SOCIAL FACILITIES)	
HALL-1 (ENGINEERING SCIENCES) Time zone: UTC+3 / Istanbul		
14:00-15:40 10.06.2021	Chair	Prof.Dr.Hakki DURU
	Authors	Titles
	Murat ORNO	Random Forest Regression Combined with Minimum Reduncancy Maximum Relevance for Point of Sale Customer Lifetime Prediction
	Erkan GÜNERHAN, Cemal KÖSE	Speaker Identification using Long Short-Term Memory and GMM
	Cem IŞIK	Development of an Advanced Corporate Performance Management Suite
	Mohamed Anass EL YAMANI	A two-groups Covid 19 epidemiological model: Stability analysis and numerical simulations using neural networks
	Mine DOĞAN	THE NEW KUMARASWAMY-GARIMA DISTRIBUTION AND STATISTICAL PROPERTIES
	Anass El Karkri	DFT study of six compounds based on Benzothiadiazole and (3,4-ethylenedioxythiophene) for application to organic solar cells
15:40-16:00	COFFEE BREAK	



HALL-1 (ENGINEERING SCIENCES) <i>Time zone: UTC+3 / Istanbul</i>		
16:00-17:40 10.06.2021	Chair	Prof.Dr.Hakkı DURU
	Authors	Titles
	Ayşe İrem ÖZMEN, Sera ÖZKIVANÇ	Development of an Integrated Supplier Portal for Procurement and Supplier Management
	Serkan Ayverdi	Blockchain for Foreign Trade
	AYŞE BUĞATEKİN	TESTING THE RELIABILITY OF A MACHINE WITH NON-HOMOGENEOUS POISSON PROCESS
	BEHRA CANTÜRK	Grand Canonical Monte Carlo Modeling of Bio-MOFs for Anesthetic Xe Recovery Applications
	Cağlar Gurkan	Machine Learning Approaches to Sentiment Analysis Using Tweets About AstraZeneca COVID-19 Vaccine
	Anass El Karkri	COMPUTATIONAL CALCULATION OF PHOTOVOLTAIC PARAMETERS OF SOLAR CELLS BASED ON ORGANIC MATERIALS
HALL-2 (FRACTIONAL) <i>Time zone: UTC+3 / Istanbul</i>		
14:00-15:40 10.06.2021	Chair	Assoc. Prof. Dr. Onur SALDIR
	Authors	Titles
	Hatıra GÜNERHAN	Approximate-analytical method for solving the nonlinear fractional Ebola Virus mathematical model
	Enes Ata	New Generalizations of Lauricella Hypergeometric Functions and Their Integral Representations
	Mehmet Yavuz	MODELLING OF HEPATITIS-B DISEASE HAVING VERTICAL TRANSMISSION
	El Karkri Jaafar	A new Covid 19 multi-strain epidemiological model : analytical study and multi agent based simulations
	Jalal Taji	Integrating Age-based Preventive Maintenance and Buffer Stock under Lease Contract using a Mathematical Model
15:40-16:00	COFFEE BREAK	
HALL-2 (APPLIED SCIENCES) <i>Time zone: UTC+3 / Istanbul</i>		
16:00-17:40 10.06.2021	Chair	Assoc. Prof. Dr. Onur SALDIR
	Authors	Titles
	Ilham Asmouh	Highly efficient numerical tools for solving nonlinear transport problems: Application to the coupled viscous Burgers' equations
	Arif ENGİN	Optimal Control of the Initial Condition in a Heat Conductivity Problem
	SİBEL ŞEHRİBAN UZUNDAĞ	New solutions to the B-type Kadomtsev-Petviashvili-Boussinesq Equation in (3+1) dimensions
	ARZU BILGIN	The Global Attractivity of Linearizable Scalar Difference Equations
	Münevver Tuz	Bidirectional Associative Memory Type Fractional Order in Anti-Periodic Solutions

HALL-3 (APPLIED SCIENCES) <i>Time zone: UTC+3 / Istanbul</i>		
14:00-15:40 10.06.2021	Chair	Prof.Dr.Mehmet Giyas SAKAR
	Authors	Titles
	Mohamed Anass EL YAMANI	A two-groups Covid 19 epidemiological model : stability analysis and numerical simulations using neural networks
	Hazal YÜKSEKKAYA	EXPONENTIAL GROWTH OF SOLUTIONS FOR A VISCOELASTIC PLATE EQUATION WITH DISTRIBUTED DELAY TERM
	Özgür Kotan, Ercan Çelik	The Solution of The Linear Differential-Difference Equations with Aboodh Transform
	Arif ENGİN	Exact Boundary Controllability of Nodal profile for a Hyperbolic Problem
	Hazal YÜKSEKKAYA	NONEXISTENCE OF GLOBAL SOLUTIONS FOR A KIRCHHOFF-TYPE WAVE EQUATION WITH TIME DELAY
15:40-16:00	COFFEE BREAK	
HALL-3 (FRACTIONAL) <i>Time zone: UTC+3 / Istanbul</i>		
16:00-17:40 10.06.2021	Chair	Prof.Dr.Mehmet Giyas SAKAR
	Authors	Titles
	MÜNEVVER tuz	BIDIRECTIONAL ASSOCIATIVE MEMORY TYPE FRACTIONAL ORDER IN ANTI-PERIODIC SOLUTIONS
	Firat Çakır	A Novel Numerical Scheme on Bakhvalov-Shishkin Mesh for Non-linear Singularly Perturbed Volterra Integro-Differential Equations
	Haniffa Mohamed Nasir	Linear Multistep methods for Fractional Initial Value Problems with improved Stability
	Haniffa Mohamed Nasir	Higher Order Linear Multistep Methods for Fractional Initial Value Problems with Improved Stability
	Mahmud Modanli, Ece Göktepe	DIFFERENCE SCHEME METHOD FOR FRACTIONAL ORDER PSEUDO-PARABOLIC DIFFERENTIAL EQUATION
HALL-4 (APPLIED SCIENCES) <i>Time zone: UTC+3 / Istanbul</i>		
14:00-15:40 10.06.2021	Chair	Dr. Fatih ULUDAĞ
	Authors	Titles
	Dilara ALTAN KOÇ	A CHEBYSHEV COLLOCATION MATRIX METHOD FOR SOLVING BRATU-TYPE EQUATIONS
	Tolga AKTÜRK , Maşure Kübranur DİKİCİ	Analysis of the Solution of Shallow Water Model
	Yılmaz EKİNCİ	UNIFORM CONVERGENCE RESULTS FOR SINGULARLY PERTURBED FREDHOLM INTEGRO-DIFFERENTIAL EQUATION
	Emrah Yılmaz	EXPRESSION OF THE LAW AS A MATHEMATICAL
	Tolga AKTÜRK, Maşure Kübranur DİKİCİ	Investigation of Solitary Wave Solutions of Nonlinear Partial Differential Equation by Modified Exponential Function Method
15:40-16:00	COFFEE BREAK	



HALL-4 (APPLIED SCIENCES) Time zone: UTC+3 / Istanbul		
16:00-17:40 10.06.2021	Chair	Dr. Fatih ULUDAĞ
	Authors	Titles
	Bahar Acay	ANALYSIS OF FRACTIONAL LANA FEVER INFECTION MODEL INCLUDING SINGULAR KERNEL
	Berna Benli	Analysis of Fractional KGZ Equations Using a Different Method
	Bahar Acay	A FRACTIONAL-ORDER MODEL FOR THE DYNAMICS OF HIV INFECTION WITH CAPUTO DERIVATIVE
	Nihat Arıkan	Mechanical and phonon properties of half-Heusler ZrIrSi alloy from density functional theory
	Nuri Murat Yağmurlu	Numerical Solution of the coupled Burgers' equation by Trigonometric B-spline Collocation Method
HALL-5 (APPLIED SCIENCES) Time zone: UTC+3 / Istanbul		
14:00-15:40 10.06.2021	Chair	Asst. Prof.Dr.Yener ALTUN
	Authors	Titles
	Erhan Özdemir	The Solution of First Kind Linear Volterra Integral Equations with Transform
	Hayriye Güçkır Çakır	A numerical approach for Singularly Perturbed Volterra Integro-Differential Equations on Bakhvalov-Shishkin Mesh
	Yener ALTUN	Novel results on stability of nonlinear fractional-order neutral systems with time varying delay
	Semra YURTTANÇIKMAZ	Osculating direction curves of non-lightlike curves in $E(3-1)$
	Sibel Şehriban Uzundağ	New solutions to the B-type Kadomtsev-Petviashvili-Boussinesq Equation in $(3+1)$ dimensions
15:40-16:00	COFFEE BREAK	
HALL-D5 (APPLIED SCIENCES) Time zone: UTC+3 / Istanbul		
16:00-17:40 10.06.2021	Chair	Asst. Prof.Dr.Yener ALTUN
	Authors	Titles
	P. Veerasha	Solution for fractional Biswas-Milovic equation using a computational technique
	Baransel Günes	UNIFORMLY NUMERICAL METHOD FOR SINGULARLY PERTURBED SOBOLEV PROBLEM WITH THIRD TYPE BOUNDARY CONDITION ON BAKHVALOV MESH
	Ezgi KAYA	INVERSE PROBLEM FOR THE GRAPH INVARIANTS
	Gulsen KILINC	ON SOME GEOMETRIC PROPERTIES OF A SEQUENCE SPACE DEFINED AS THE FIELD OF A TRIANGLE MATRIX
	Baransel Günes	NUMERICAL METHOD FOR SINGULARLY PERTURBED CONVECTION-DIFFUSION PERIODIC BOUNDARY VALUE PROBLEM ON SHISHKIN MESH

HALL-D6 (ANALYSIS)		Time zone: UTC+3 / Istanbul
14:00-15:40 10.06.2021	Chair	Prof.Dr.Musa ÇAKIR
	Authors	Titles
	Merve Karaođlan	M- STURM-LIOUVILLE PROBLEM WITH MODIFIED COULOMB POTENTIAL
	Baransel GUNES	ε - Uniform Numerical Method for The Singularly Perturbed Nonlinear Mixed Type Integro-Differential Equations
	Etibar Panakhov and F. Asadli	On the Inverse problem for singular Sturm-Liouville Operator
	Ayşe Dilek Maden, Ayşe Nur Demir	A Generalization of Randic Incidence and Laplacian Incidence Energies
	K. Karthikeyan	On Fractional Impulsive Integrodifferential Equations Involving Hilfer Fractional Derivative and Almost Sectorial Operators
	Derya Arslan	NUMERICAL SOLUTION FOR NONLINEAR SINGULARLY PERTURBED PROBLEM WITH TWO MULTIPOINT BOUNDARY CONDITIONS
15:40-16:00	İsmail Özođul	FINITE ELEMENT MODELING OF PRESTRESSED REINFORCED CONCRETE HAUNCHED BEAMS
16:00-16:30	CLOSING CEREMONY (CONFERENCE HALL, DEPARTMENT OF MATHEMATICS)	
19:00-21:00	DINNER (RÖNESANS LIFE OTEL)	



ORAL PRESENTATIONS

08.06.2021	
08:00-10:00	REGISTRATION
10:00-10:30	OPENING CEREMONY (ONLINE)
	Prof. Dr. Zakia Hammouch (Chairman)
	Prof. Dr. Fevzi Erdoğan
	Prof. Dr. Hamdullah Şevli (Rector of Van Yüzüncü Yıl University, Van, Turkey)
	Prof. Dr. Hassane Sahbi (Rector of Moulay Ismail University, Morocco)
	Prof. Dr. Mohammed Amine (Director of ENS Meknes, Moulay Ismail University)
	Prof. Dr. Fahrettin Göktaş (Rector of Fırat University, Elazığ, Turkey)
10:30-11:00	PLENARY LECTURE (ONLINE)
	Speaker: Prof. Abdon Atangana
	Title: FRACTIONAL DIFFERENTIATION AND INTEGRATION ABOVE POWER LAW SOME NEW DEVELOPMENTS
	Chair: Prof. Alaattin Esen
11:00-11:15	COFFEE BREAK
11:15-11:45	PLENARY LECTURE (ONLINE)
	Speaker: Prof. Carlo Cattani
	Title: A REVIEW ON WAVELET FRACTIONAL CALCULUS
	Chair: Prof. Fevzi Erdogan
11:45-12:00	COFFEE BREAK
12:00-12:30	PLENARY LECTURE (ONLINE)
	Speaker: Prof. Dumitru Baleanu
	Title: SOME NEW TRENDS IN FRACTIONAL CALCULUS
	Chair: Prof. Abdon Atangana
12:30-14:00	LUNCH



HALL-1 (FRACTIONAL)		
14:00-15:40 08.06.2021	Chair	Prof.Dr.Ercan ÇELİK
	Authors	Titles
	Bahar Acay	ANALYSIS OF FRACTIONAL LANA FEVER INFECTION MODEL INCLUDING SINGULAR KERNEL
	Havva Kavurmacı-Önalan	On New Integral Inequalities via Atangana-Baleanu fractional Integral Operators
	Ali Rostami	High-Efficiency Integrated MIR Band to Visible Band Upconversion Optoelectronic System
	Ali Rostami	Broadband Terahertz Absorber using superimposed Graphene Quantum Dots
15:40-16:00	COFFEE BREAK	
HALL-1 (APPLIED SCIENCES)		
16:00-17:40 08.06.2021	Chair	Prof.Dr.Ercan ÇELİK
	Authors	Titles
	Ali Rostami	A Proposal for Sub diffraction Optical Imaging
	Sibel Tarla	New behaviors of the (2+1)-dimensional Camassa-Holm-Kadomtsev- Petviashvili and the nonlinear Zoomeron equations via the sine-Gordon expansion method
	Lawal Muhammad	Exponential ansatz approach for solving nonlinear evolution equations
	Mohammed Mechee	Performance of Generalized Runge Kutta Integrator for Solving Class of Sixth-Order Ordinary and Partial Differential Equations
	Münevver Tuz	Bidirectional Associative Memory Type Fractional Order in Anti-Periodic Solutions
HALL-2 (ENGINEERING SCIENCES)		
14:00-15:40 08.06.2021	Chair	Prof.Dr.Alaattin ESEN
	Authors	Titles
	Taiwo Ijaoye	The influence of various support schemes on the economical feasibility of various scale wind turbine system in Delta State, Nigeria
	Barış Özdicle	Forecasting Flight Delays with Regression Models and Cross Validation
	Emrehan Yavsan	Development Processes of a Capacitive Rotary Encoder
	Ramin Kazemi	STRESS-STRENGTH RELIABILITY of a WEIBULL-STANDARD NORML DISTRIBUTION Based on Type-II PROGRESSIVE CENSORED SAMPLES
	Taiwo Ijaoye	Vacuum CCleaner Robot: Artificial Intelligent
15:40-16:00	COFFEE BREAK	

HALL-2 (APPLIED SCIENCES)

16:00-17:40 08.06.2021	Chair	Prof.Dr.Alaattin ESEN
	Authors	Titles
	Zulqurnain Sabir, Fevzi Erdoğan	Design of neuro swarming heuristic for a class of singular singularly perturbed two-point boundary value problems
	Zakaria El Malki	COMPUTATIONAL STUDY ON THE STRUCTURAL, OPTOELECTRONIC AND PHOTOVOLTAIC PROPERTIES OF MODIFIED DONOR-ACCEPTOR CONJUGATED OLIGOMERS FOR ORGANIC SOLAR CELLS.
	Arzo Mahmood	Speech recognition based on Convolutional neural networks and MFCC algorithm
	Bahar Acay	A FRACTIONAL-ORDER MODEL FOR THE DYNAMICS OF HIV INFECTION WITH CAPUTO DERIVATIVE

HALL-3 (ENGINEERING SCIENCES)

14:00-15:40 08.06.2021	Chair	Prof.Dr.Ali AKGÜL
	Authors	Titles
	Yücel İnan	FREQUENCY ANALYZING WITH CLASSIC CAESAR CRYPTOGRAPHY METHOD
	Aylin Özodabaş	INVESTIGATION OF RECONSTRUCTION WORKS OF HISTORICAL HOUSES IN MUDANYA
	Hakan F. Öztop	Heat and Mass Transportation of Different Shaped Porous Moist Object in a Channel
	Gökhan Yüksek	Implementation of Linear Active Disturbance Rejection Control for DC Motor System
	Ali Rostami	A proposal for Wide range Upconversion Process using Optical Force

15:40-16:00

COFFEE BREAK

HALL-3 (APPLIED SCIENCES)

16:00-17:40 08.06.2021	Chair	Prof.Dr.Ali AKGÜL
	Authors	Titles
	Jalal Taji	Integrating Age-based Preventive Maintenance and Buffer Stock under Lease Contract using a Mathematical Model ; A Game Theoretic Approach
	Farouk Saad	Optimal control of chemovirotherapy model
	Afshin Barati Chianeh	A FINITE DIFFERENCE ANALYSIS OF BOUNDARY VALUE PROBLEMS FOR SINGULARLY PERTURBED EQUATIONS ON BAKHVALOV MESH
	Sani Danjuma	A New Approach to Normal Parameter Reduction of Soft Sets
	Akbar Barati Chianeh	COMPARISON OF MONTE CARLO SIMULATION AND NUMERICAL METHODS FOR STOCHASTIC DIFFERENTIAL EQUATIONS



HALL-4 (APPLIED SCIENCES)

14:00-15:40 08.06.2021	Chair	Prof.Dr.Esin İLHAN
	Authors	Titles
	Ayşe Nur AKKILIÇ	Analyzing the Wave Solutions of the Mathematical Model with the Modified Exponential Function Method
	Mine Doğan	ON THE KUMARASWAMY-GARIMA DISTRIBUTION AND STATISTICAL PROPERTIES
	Mücahit Saydam	Numerical solution of Pavlov equation by the Adomian decomposition method and homotopy perturbation method
	Erkan Günerhan	Speaker Identification using Long Short-Term Memory and GMM
	Ayşe Nur Akkılıç	Analytical solutions to the (2+1)-dimensional integro-differential Jaulent-Miodek evolution equation via the $(m+1/G')$ -expansion and rational methods

15:40-16:00

COFFEE BREAK

HALL-4 (APPLIED SCIENCE)

16:00-17:40 08.06.2021	Chair	Prof.Dr.Esin İLHAN
	Shafiqul Islam Md	Mathematics of the 2nd Law of Thermodynamics
	Pasquale De Luca	A novel fast Gaussian Filter procedure for images noising-removal
	Esin İlhan	Fractional vector-borne disease model with lifelong immunity under Caputo operator
	Esin İlhan	Analysis Of The Spread Of Hookworm Infection With Caputo-Fabrizio Fractional Derivative
	Ali Rostami	Highly Ultra-Broadband QD-SOA Exploiting Superimposition of Quantum Dots

HALL-5 (APPLIED SCIENCES)

14:00-15:40 08.06.2021	Chair	Prof.Dr.Hikmet KEMALOĞLU
	Authors	Titles
	Hatıra Günerhan	Approximate-analytical method for solving the nonlinear fractional Ebola Virus mathematical model
	Bentse Chun	LINEAR CODES OF INCIDENCE STRUCTURES OF THE NON-ASSOCIATIVE STRUCTURAL PROPERTY OF THE AUNU INTEGER SEQUENCE.
	Hazal YÜKSEKKAYA	MATHEMATICAL BEHAVIOR OF SOLUTIONS OF HYPERBOLIC-TYPE EQUATION WITH DELAY TERM
	Sait Taş	Hyperbolic Padovan and Hyperbolic Pell-Padovan Sequences
	Ali Akgül	ANALYSIS OF SOME MODELS WITH DIFFERENT KERNELS

15:40-16:00

COFFEE BREAK

HALL-5 (ANALYSIS)		
16:00-17:40 08.06.2021	Chair	Prof.Dr.Hikmet KEMALOĞLU
	Authors	Titles
	Emetullah Yağız	HERMITE-HADAMARD TYPE INTEGRAL INEQUALITIES FOR g -PREINVEX DOMINATED FUNCTIONS and (g,r) - PREINVEX DOMINATED FUNCTIONS
	Elyas Shivanian	Pseudospectral meshless radial point Hermit interpolation: Theory and applications
	Ruma Kareem K. Ajeena	MORE SECURE ON THE TOPOLOGICAL SPACES TO DESIGN ENCRYPTION SCHEMES
	Nihat Arıkan	Mechanical and phonon properties of half-Heusler $ZrIrSi$ alloy from density functional theory
	Tulay Yıldırım Turan	NOTES ON ENDOMORPHISM RINGS OVER LEAVITT PATH ALGEBRA
HALL-6 (ANALYSIS)		
14:00-15:40 08.06.2021	Chair	Prof.Dr.Alper Osman ÖGRENİMİŞ
	Authors	Titles
	Sivashanmugaraja C	FUZZY SLIGHTLY GENERALIZED β -CONTINUOUS AND FUZZY SLIGHTLY GENERALIZED β - γ -CONTINUOUS FUNCTIONS
	Tuncay Genç	CASCADE FUNCTION BASED RANDOM NUMBER GENERATOR
	Ruma Kareem K. Ajeena	THE MULTI-PRIMES ELLIPTIC CURVE FACTORIZATION OVER REAL FIELD
	Uğur BAYRAKCI	Solutions of Riemann Wave Equation by Using Sine-Gordon Expansion Method
15:40-16:00	COFFEE BREAK	
HALL-6 (APPLIED SCIENCE)		
16:00-17:40 08.06.2021	Chair	Prof.Dr.Alper Osman ÖGRENİMİŞ
	Authors	Titles
	Beyhan Kemaloğlu	A Novel Analytical Method to the Equation System of Ion-acoustic and Langmuir Waves in Plasmas Physics
	Ali Rostami	Selective Band Amplification in the Ultra Broad Band Reflective Semiconductor Optical amplifiers
	Muharrem Tuncay Gençoğlu	MATHEMATICAL MODELING IN CYBER DEFENSE
	Adem Tunçdamar	Solving Damped Duffing Equation Using Artificial Neural Networks
	Abdullah Oğrak	The Effect of Goal Pressure on Organizational Commitment: An Application on Banks



HALL-7 (ENGINEERING SCIENCE)

14:00-15:40 08.06.2021	Chair	Prof.Dr.Musa ÇAKIR
	Authors	Titles
	Ferdi Özdemir	Differential Operators in the Homogeneous Space of $su(3)$ Group
	Murtada Ali Hussein Alwan	THE LU FACTORIZATION TO INCREASE THE SECURITY OF THE COLORED IMAGES ENCRYPTION SCHEMES
	Uğur BAYRAKCI	Soliton Solutions of Generalized Third-Order Nonlinear Schrödinger Equation by Using GKM
	Ebru Korkmaz	DIFFICULTIES IN DISTANCE EDUCATION FROM THE PERSPECTIVE OF MATHS EDUCATION AND MATHEMATICS DEPARTMENTS FACULTY MEMBERS
	Emetullah Yağız	ON HERMITE-HADAMARD TYPE INEQUALITIES FOR (g,h) -PREINVEK DOMINATED FUNCTIONS

15:40-16:00 **COFFEE BREAK****HALL-7 (APPLIED SCIENCES)**

16:00-17:40 08.06.2021	Chair	Prof.Dr.Musa ÇAKIR
	Authors	Titles
	Tuğçe Kunduracı	On the ditopological texture spaces
	Güven Kaya	Dynamical behaviors of a conformable fractional order logistic model
	Esra Karatas Akgül	ANALYSIS OF FRACTIONAL DIFFERENTIAL EQUATIONS WITH DIFFERENT KERNELS
	Ali Rostami	An Atomistic Investigation on the Thermodynamics of Indo-Cyanine-Green using DFT and Molecular Dynamics
	Abdullah Oğrak	The Relationship Between Goal Pressure and Job Satisfaction: An Application on the Banking Sector

19:00-21:00 **DINNER (RÖNESANS LIFE OTEL)**

09.06.2021

10:30-11:00
09.06.2021

PLENARY LECTURE (ONLINE)

Speaker: **Prof. JUANLUIS GARCÍA GUÍRAO**

Title: SHANNON-WHITTAKER-KOTEL'NIKOV'S THEOREM GENERALIZED

Chair: Prof. Abdon Atangana

11:00-11:15

COFFEE BREAK

11:15-11:45
09.06.2021

PLENARY LECTURE (ONLINE)

Speaker: **Prof. Vatan Karakaya**

Title: THE FORMATION STAGES OF MATHEMATICAL MODELING IN TERMS OF MATH PHILOSOPHY

Chair: Prof. Ercan Celik

11:45-12:00

COFFEE BREAK

12:00-12:30
09.06.2021

PLENARY LECTURE (ONLINE)

Speaker: **Prof. Oscar Castillo**

Title: OPTIMIZATION OF TYPE-2 FUZZY SYSTEMS: THEORY AND APPLICATIONS

Chair: Prof. Mehmet Gıyas Sakar

12:30-14:00

LUNCH VAN YUZUNCU YIL UNIVERSITY SOCIAL FACILITIES)

19:00-22:00

DINNER (RÖNESANS LIFE OTEL)



10.06.2021

10:30-11:00 10.06.2021	PLENARY LECTURE (ONLINE)
	Speaker: Prof.Ali Yousef
	Title: ASYMPTOTIC CHARACTERISTICS OF THE THREE-STAGE PROCEDURE WHEN THE NORMAL COEFFICIENT OF VARIATION IS KNOWN WITH SIMULATION
	Chair: Prof. Fevzi Erdogan
11:00-11:15	COFFEE BREAK
11:15-11:45	PLENARY LECTURE (ONLINE)
	Speaker: Prof.ALI ROSTAMI
	Title: MATHEMATICAL MODELING OF HIGH-EFFICIENCY SOLAR CELLS USING SELECTIVE ENERGY CONTACTS
	Chair: Prof.Zakia Hammouch
11:45-12:00	COFFEE BREAK
12:00-12:30	PLENARY LECTURE (ONLINE)
	Speaker: Prof.
	Title:
	Chair: Prof.Abdon Atangana
12:30-14:00	LUNCH VAN YUZUNCU YIL UNIVERSITY SOCIAL FACILITIES)
19:00-22:00	DINNER (RÖNESANS LIFE OTEL)



POSTER PRESENTATIONS

POSTER-1	Murat Tosun	Trajectories Generated by Special Smarandache Curves According to Positional Adapted Frame
POSTER-2	Ahmed Mohammed Ali , Herish Omer Abdulla, Gashaw Aziz Mohammed Salah	Hosoya Polynomials and Wiener Indices of Carbon Nanotubes Using Mathematica Programming
POSTER-3	Ban Jamal	Optical soliton solutions of Fokas-Lenells equation via η -expansion method
POSTER-4	Rebiha Benterki	The solution of the second part of the 16th Hilbert problem for SOME families of discontinuous piecewise differential systems
POSTER-5		

POSTERS PRESENTATIONS WILL BE PRESENTED at 14.30-18.00 on 08.06.2021 and 10.06.2021





**5th INTERNATIONAL CONFERENCE ON
COMPUTATIONAL MATHEMATICS AND
ENGINEERING SCIENCES**

www.cmescongress.org
cmes2020van@gmail.com