

**AUS-ICMS20**  
**February 6<sup>th</sup>- 9<sup>th</sup>, 2020**

**DAILY SCHEDULE**

<b>Time</b>	<b>Day 1, February 6</b>
08:30 – 10:30	Registration & Breakfast
10:30 – 11:00	Opening Ceremony <i>Main Building Hall B</i>
11:00 – 12:00	Plenary I <i>Main Building Hall B</i>
12:00-12:15	Group Photo Op
12:15 – 14:00	Lunch <i>Main Building-Faculty Lunch</i>
14:00 – 15:40	Session A1 <i>Business Building</i>
15:40 – 16:00	Coffee Break
16:00 – 18:05	Session A2 <i>Business Building</i>

<b>Time</b>	<b>Day 2, February 7</b>
08:00 – 09:00	Registration & Breakfast
09:00 – 10:40	Session B1 <i>Business Building</i>
10:40 – 11:00	Coffee Break
11:00 – 12:15	Session B2 <i>Business Building</i>
12:15 – 14:00	Lunch <i>Student Center</i>
14:00-16:05	Session B2 <i>Business Building</i>
18:30 – 22:00	Banquet Dinner- Occidental Sharjah Grand Hotel

<b>Time</b>	<b>Day 3, February 8</b>
08:00 – 09:00	Registration & Breakfast
09:00 – 10:00	Plenary II <i>Main Building Hall A</i>
10:00 – 10:30	Coffee break & Group Photo Op <i>Business Building</i>
10:30 – 12:30	Session C1 <i>Business Building</i>
12:30 – 14:00	Lunch <i>Student Center</i>
14:00 – 16:05	Session C2 <i>Business Building</i>
16:30 – 22:00	Excursion (Dubai Global Village-free of charge)

## CONFERENCE PROGRAM

### Thursday 6<sup>th</sup> February, 2020

**Registration & Breakfast**  
8:30 – 10:30

**Opening Ceremony**  
10:30 – 11:00

**Plenary Lecture I**  
*Modelling Collective Cell Migration*  
**Professor Philip K. Maini**  
University of Oxford  
11:00 – 12:00

**Group Photo Op**  
12:00 – 12:15

**Lunch**  
12:15-14:00 pm

**Session A1: Applied Mathematics**  
Chair: Abdulhakeem Yusuf  
Room: TBA

Time	ID	Title	Speaker
14:00-14:25	AM-3003	Hydromagnetic and Thermal Boundary Layer Flow due to Radial Stretching Sheet with Dufour and Soret Effects	Abdulhakeem Yusuf
14:25-14:50	AM-3033	Autoionization of Hollow Atomic Ions	Shahin A. Abdel-Naby
14:50-15:15	AM-3007	CFD – A Tool to Study Air Pollution Problems	Khaleel Ahmed
15:15-15:40	MB-3008	Stochastic Delay Differential Equations for Three Species Prey-Predator System with Allee Effect	Hebatallah Alsakaji

**Special Session A1: Rings, Monoids and Module Theory**  
Chair: Sylvia Wiegand  
Room: TBA

Time	ID	Title	Speaker
14:00-14:25	AA3027	On $t$ -local Domains and Valuation Domains	Marco Fontana
14:25-14:50	AA3003	On Valuation Factorization Domains	Andreas Reinhart
14:50-15:15	AA3010	Class(semi)group of Prufer Domains and Atomicity	Richard Erwin Hasenauer
15:15-15:40	AA3029	The Class Group of $h$ -local Prufer Domains	Gyu Whan Chang

<b>Special Session A1: Discrete Dynamic Modeling of Biological Systems</b>			
<b>Chair: Abdul Jarrah</b>			
<b>Room: TBA</b>			
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
14:00-14:30	MB-3004	A Multiscale Model of the Innate Immune Response to Respiratory Fungal Infections	Reinhard Laubenbacher
14:30-15:00	MB-3009	Deciphering Yeast Physiology by a Multi-Scale Framework Integrating Cell Cycle and Metabolism	Matteo Barberis
15:00-15:25	MB-3015	Compositionality in the Boolean Model of Regulatory Networks	Marco Pedicini
<b>Session A1: Number Theory</b>			
<b>Chair: Armen Bagdsaryan</b>			
<b>Room: TBA</b>			
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
14:00-14:25	NT-3006	On Some Relations Involving Zeros of Riemann Zeta Function and other Zeta Related Functions	Armen Bagdsaryan
14:25-14:50	NT-3001	Analytic Expressions of Characters Defined on Witt Vectors Rings	Siham Mokhfi
14:50-15:15	NT-3008	On Certain Multiple Dirichlet Series of Completely Multiplicative Function	Nabil Tahmi
15:15-15:40	NT-3007	On a Method of Summation of Infinite Series with some Applications to Special Numbers and Zeta Functions	Armen Bagdsaryan
<b>Session A1: Statistics</b>			
<b>Chair: Sana Louhichi</b>			
<b>Room: TBA</b>			
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
14:00-14:25	ST-3003	Nonparametric Estimation for the Hazard Function	Mounir Arfi
14:25-14:50	ST-3007	On Smoothing Parameters Selection Problems in Nonparametric Regression Models with Dependent Errors	Sana Louhichi
14:50-15:15	ST-3015	Smooth Nonparametric Regression under Shape Restrictions	Hongbin Guo
15:15-15:40	ST-3016	Value-At-Risk Prediction through Vine Copula	Arief Hakim
<b>Session A1: Financial Mathematics</b>			
<b>Chair: Mayank Goel</b>			
<b>Room: TBA</b>			
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
14:00-14:25	FM-3002	Causality and Price Discovery of Cross-Listed Nifty Futures	K. Kiran Kumar
14:25-14:50	FM-3005	Option Pricing for Quantum Flow of Q-Derivative Operators	Jun Fan
14:50-15:15	FM-3006	Risk-Sensitive Benchmarked Portfolio Optimization with General Non-Negative Economic Factors	Mayank Goel
15:15-15:40	FM-3008	Valuation of Volatility Derivatives under Markov Switching Stochastic Volatility Model	Youssef El Khatib

# COFFEE BREAK

15:40-16:00 pm

## Poster Presentation

Time	ID	Title	Speaker
15:40 – 16:00	DE-3003	Global Existence and Stability for Coupled System of Hyperbolic Equations with Variable Exponents	Oulia Bouhoufani

## Special Session A2: Financial Statistics with Application in Cryptocurrency and Blockchain Chair: Stephen Chan Room: TBA

Time	ID	Title	Speaker
16:00-16:25	FM-3007	The Adaptive Market Hypothesis in the High Frequency Cryptocurrency Market	Jeffrey Chu
16:25-16:50	FM-3004	Trading Models on Cryptocurrencies	Shou Hsing Shih
16:50-17:15	ST-3012	Modelling Cryptocurrencies using Undirected Graphs	Paola Stolfi
17:15-17:40	FM-3003	Flexible Models for Stock Returns based on Student's t-Distribution	Emmanuel Afuecheta

## Special Session A2: Statistical Learning-Data Mining-Probability Chair: Mahmoud Awad Room: TBA

Time	ID	Title	Speaker
16:00-16:25	ST-3018	Travelers' Perception of Service Quality at Dubai International Airport	Mahmoud Awad
16:25-16:50	ST-3023	An Artificial Neural Network Approach to Nonparametric Control Chart	Nimbale S. M
16:50-17:15	ST-3004	A Hybrid Artificial Neural Networks and Arima Models for Forecasting Electricity Consumption in Palestine	Samir K. Safi
17:15-17:40	MD-3003	Design New Pseudorandom Number Generators using Tabu Programming	Emad Mabrouk
17:40-18:05	ST-3017	Human Gut Microbiota Composition and Functionality Correlation with Age	Mohammad Tahseen Al Bataineh

## Session A2: Analysis Chair: Oscar Fonseca Room: TBA

Time	ID	Title	Speaker
16:00-16:25	AN-3014	Approximation Properties of $\Theta$ -Means of Walsh-Fourier Series in Different Spaces	Karoly Nagy
16:25-16:50	AN-3015	Some Fixed Point Results in Complex Valued Dislocated Metric Space and its Applications	Rajinder Sharma
16:50-17:15	AN-3023	Trace Identities in the Moduli Space of Kleinian Groups	Jianhua Gong

17:15-17:40	AN-3011	The $\Lambda$ -Aluthge Transformation of Closed Range Operators	Safa Menkad
17:40-18:05	AN-3021	Linear Functionals on Bochner-Lebesgue Spaces with Variable Exponent	Oscar Fonseca
<b>Session A2: Topology and Geometry</b> <b>Chair: Sadok Kallel</b> <b>Room: TBA</b>			
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
16:00-16:25	TG-3003	The Space of Two-Generator Kleinian Groups	Hala Alaqaad
16:25-16:50	TG-3004	Some Operators and Limit Points of a Soft Set using Soft Somewhere Dense Sets	Aaesheh Zakari
16:50-17:15	TG-3005	On Fox-Trapezoidal Conjecture for Closed 3-Braids	Marwa Alrefai
17:15-17:40	TG-3006	Combinatorial Invariants of Stratified Spaces	Sadok Kallel
17:40-18:05	TG-3002	Rational Homotopy Methods in Graph Theory	Mahmoud Benkhalifa
<b>Special Session A2: Rings, Monoids and Module Theory</b> <b>Chair: Toma Albu</b> <b>Room: TBA</b>			
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
16:00-16:25	AA-3022	Torsion in Tensor Product and Rigid Ideals	Roger Wiegand
16:25-16:50	AA-3021	Vanishing of Tor over Fiber Products	Sylvia Wiegand
16:50-17:15	AA3082	Idealization of co-multiplication modules	Majid Ali
17:15-17:40	AA3031	Some finiteness conditions on the set of intermediate rings of a ring extension with zero divisors	Ali Jaballah
<b>Special Session A2: Partial Differential Equations, Analysis and Control</b> <b>Chair: Amjad Tuffaha</b> <b>Room: TBA</b>			
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
16:00-16:25	AM-3010	Some Aspects of Kuramoto-Sivashinsky Equations	Said Benachour
16:25-16:50	AM-3004	Evolution of Elementary Waves in Two Phase Mass Flows	Manoj Kumar Pandey
16:50-17:15	DE-3012	Analysis of Burgers- $\alpha$ Equation: Optimal Estimates of Parameter $\alpha$ using Physics-informed Deep Learning Algorithm	Bong-Sik Kim
17:15-17:40	AN-3019	Lower Semi-continuity and Convergence of a Class of Linear Growth Functionals with L1 Data	Thomas Wunderli

<b>Special Session A2: Discrete Dynamic Modeling of Biological Systems</b>			
<b>Chair: Fil Castiglione</b>			
<b>Room: TBA</b>			
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
16:00-16:30	MB-3001	Network Control through Multistate Canalization	Elena Dimitrova
16:30-17:00	MB-3065	Network Reconstruction using Computational Algebra and Gene Knockouts	Matthew Macauley
17:00-17:30	MB-3002	Methylation Challenges & Opportunities for Biomarkers Identification – Focus on Imputation	Christine Nardini
17:30-18:00	MB-3006	Critical Nodes Reveal Remarkable Features of Human Essential Genes and Protein Interactome	Paolo Tieri
<b>Special Session A2: Advanced Numerical Methods and their Application</b>			
<b>Chair: Ali Sayfy</b>			
<b>Room: TBA</b>			
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
16:00-16:25	CM-3002	An Efficient approach for the solution of fractional BVPs	Ali Sayfy
16:25-16:50	CM-3006	Multilevel Iteration for the Nonlinear Mild-Slope Equation	Yogi A. Erlangga
16:50-17:15	CM-3001	Numerical Solution of Stochastic Partial Differential Systems with Additive Noise on Overlapping Subdomains	Mostafa Zahri
17:15-17:40	AM-3013	Numerical Determination of an Optimal Control for a Population Dynamics Model	M. Alahyane
17:40-18:05	CM-3004	Modeling and Dynamic Analysis of Two Weakly-Coupled Microbeams under Electrostatic Actuation	Muhannad Alkaddour
18:05-18:30	CM-3007	Dynamics of Metamaterial Beam Equipped with Vibration Absorbers	Ehab Basta

# Friday 7<sup>th</sup> February, 2020

**Registration**  
8:00 – 09:00

**Session B1: Numerical Analysis**  
**Chair: Rama Bhargava**  
**Room: TBA**

Time	ID	Title	Speaker
9:00-9:25	NA-3002	Instability Boundaries of Double-Diffusive Convection in a Brinkman Bidisperse Porous Medium with an anisotropic Permeability Effect	Sara Saleh
9:25-9:50	NA-3009	The Best Known Interior Point Algorithm for Linear Optimization Problem	El Amir Djaffal
9:50-10:15	NA-3008	A Discontinuous Galerkin Method for Systems of Stochastic Differential Equations with Applications to Population Biology, Finance, and Physics	Helmi Temimi
10:15-10:40	AM-3014	FEM Simulation on Nanofluid Flow over Power Law Stretching Sheet with MHD Thermo-Diffusive Effect	Rama Bhargava

**Session B1: Algebra and its Applications**  
**Chair: G.A. Pinto**  
**Room: TBA**

Time	ID	Title	Speaker
9:00-9:25	AA-3007	Eventually Pointed Principally Ordered Regular Semigroups	G.A. Pinto
9:25-9:50	AA-3032	The Graded Module as a Clean Comodule	Nikken Puspita
9:50-10:15	AA-3033	On the Spectra of Mixed Extensions of $P_3$	Sezer Sorgun
10:15-10:40	AA-3047	On Weakly Endocoprime Modules	Indah Wijayanti

**Special Session B1 : Rings, Monoids and Module Theory**  
**Chair: Ayman Badawi**  
**Room: TBA**

Time	ID	Title	Speaker
9:00-9:25	AA-3013	A Gentle Introduction into CoGalois Theory	Toma Albu
9:25-9:50	AA-3051	Simultaneous Interpolation and p-adic Approximation by Integer-valued Polynomials	Sophie Frisch
9:50-10:15	AA-3012	Factorization behavior in Rings of Integer-valued Polynomials over Dedekind Domains.	Roswitha Rissner
10:15-10:40	AA-3002	On EM Conditions	Emad Abuosba

<b>Special B1: Partial Differential Equations, Analysis and Control</b>			
<b>Chair: Abdelaziz Soufyane</b>			
<b>Room: TBA</b>			
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
9:00-9:50	DE-3001	A Stability Result for a Nonlinear Damped Wave Equation with Variable-Exponent Nonlinearities	Salim Messoudi
9:50-10:15	AN-3017	Translation Operator and Maximal Function for the $(K, 1)$ -Generalized Fourier Transform	Salem Ben Said
10:15-10:40	FM-3001	Numerical Solution of an Integral Equation for Perpetual Bermudan Options	Ghada Alobaidi
<b>COFFEE BREAK</b> <b>10:40-11:00 AM</b>			
<b>Special Session B2: Rings, Monoids and Module Theory</b>			
<b>Chair: Sophie Frisch</b>			
<b>Room: TBA</b>			
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
11:00-11:25	AA3058	Tilting Modules and Tilting Torsion Pairs	Alberto Tonolo
11:25-11:50	AA3039	Injective Modules over the Jacobson Algebra	Francesca Mantese
11:50-12:15	AA3056	Minimal Approximation of some Classes of Modules over Commutative Rings	Giovanna Le Gros
<b>Special Session B2: Partial Differential Equations, Analysis and Control</b>			
<b>Chair: Amjad Tuffaha</b>			
<b>Room: TBA</b>			
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
11:00-11:50	AM-3031	On some Inverse Boundary Value Problems related to the Monodomain Model of Cardiac Electrophysiology	Elena Beretta
<b>LUNCH BREAK</b> <b>12:15-2:00 PM</b>			
<b>Special Session B3: Rings, Monoids and Module Theory</b>			
<b>Chair: Roger Wiegand</b>			
<b>Room: TBA</b>			
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
14:00-14:25	AA-3011	Cohen-Macaulay Unit Graphs of Commutative Rings.	T. Asir
14:25-14:50	AA-3060	Uniqueness of Zero-Divisor Graphs with Loops	Aihua Li
14:50-15:15	AA-3038	BZS Near-Rings and Rings	Mark Farag



**Special Session B3: Partial Differential Equations, Analysis and Control**  
**Chair: Ghada Alobaidi**  
**Room: TBA**

<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
14:00-14:50	DE-3022	Loss of Regularity for Transport Equations and Optimal Mixing	Anna Mazzucato
14:50-15:15	AN-3013	Some Questions related to Optimality of the Energy Behaviour of Reissner-Mindlin-Timoshenko Systems	Makram Hamouda
15:15-15:40	DE-3007	Global Attractors for Quasilinear Parabolic-Hyperbolic Equations Governing Longitudinal Motions of Nonlinearly Viscoelastic Rods	Suleyman Ulusoy
15:40-16:05	DE-3014	Eigenvalues of the Third Boundary Problem for Bitsadze Equation	Alip Mohamed

**Session B2: Applied Mathematics**  
**Chair: Rajinder Sharma**  
**Room: TBA**

<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
14:00-14:25	AM-3030	Flexural Vibration of Piezo Electric Solid Cylinder of Class 6 - Human Bone	Nehru Erode Santhanam
14:25-14:50	AM-3026	Existence and Approximate Controllability of Delayed Fractional Differential Equations with Deformable Derivatives	Dwijendra N. Pandey
14:50-15:15	AM-3016	Modeling HIV-TB Co-Infection with Illegal Immigrants	Rajinder Sharma
15:15-15:40	DE-3021	A Controllability Elucidation- Impulsive Fractional Higher Order Neutral Delay Differential Systems	B.Sundara Vadivoo
15:40-16:05	AM-3029	Fixed Point Theorem Applications in Combating Misinformation Spread through Social Media	Dubravka Gavric

**Conference Dinner**  
**Occidental Sharjah Grand Hotel**

# Saturday 8<sup>th</sup> February, 2020

**Registration**  
8:00 – 09:00

**Plenary Lecture II**  
*Permutation (Matrices) and Beyond*  
**Professor Richard Brualdi**  
University of Wisconsin, Madison  
**9:00-10:00**

**Coffee Break & Group Photo Op**  
**10:00 – 10:30**

**Special Session C1: Designs, Codes and Graphs**  
**Chair: Maheshanand Bhaintwal**  
**Room: TBA**

Time	ID	Title	Speaker
10:30-10:55	AA-3049	Locally Recoverable Codes with Intersecting Recovering Sets	Maheshanand Bhaintwal
10:55-11:20	AA-3020	The Graphs Cospectral with the Pineapple Graph	Hatice Topcu
11:20-11:45	AA-3046	Vandermonde Sets and Hyperovals	Duy Ho
11:45-12:10	AA-3059	Hyperovals and Bent Functions	Kanat Abdukhaliqov
12:10-12:35	AA-3043	Z <sub>2</sub> <sup>z</sup> <sub>4</sub> -Additive Quadratic Residue Codes	Taher Abualrub

**Special Session C1: Rings, Monoids and Module Theory**  
**Chair: Marco Fontana**  
**Room: TBA**

Time	ID	Title	Speaker
10:30-10:55	AA-3050	Some Generalizations of Noetherian Rings	Jim Coykendall
10:55-11:20	AA-3018	Locally Free Cancellation for Definite Quaternion Algebras	Daniel Smertnig
11:20-11:45	AA-3035	Algebras whose Group of Units is Hyperbolic	Victor Bovdi
11:45-12:10	AA-3036	A Computation in Reflection Groups	Dong-il Lee

**Session C1: Algebra and its Applications**  
**Chair: Zsolt Balogh**  
**Room: TBA**

Time	ID	Title	Speaker
10:30-10:55	AA-3040	Unitary Subgroups of Group Algebras	Zsolt Balogh
10:55-11:20	AA-3062	Classification of Covering Groups of Elementary Abelian 2-groups	Dana Saleh
11:20-11:45	AA-3048	An Introduction to Neutrosophic Semirings and Bisemirings	Inayatullah Rehman

<b>Session C1: Analysis</b> <b>Chair: Ilya Spitkovsky</b> <b>Room: TBA</b>			
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
10:30-10:55	AN-3002	More Accurate Numerical Radius Inequalities (II)	Mohammad Sababbeh
10:55-11:20	AN-3006	Estimation of Müntz Polynomials over the Intervals away from the Origin	Davit Martirosyan
11:20-11:45	AN-3004	On the Numerical Range of some Matrices with Scalar Diagonal Blocks	Ilya Spitkovsky
11:45-12:10	AN-3009	Chaotic P-Adic Dynamical Systems	Farrukh Mukhamedov
12:10-12:35	AN-3005	Analytic Families of Compact Operators Commuting with their Derivative	Abdelazi Maouche
<b>Session C1: Statistics</b> <b>Chair: Fadlalla Elfadaly</b> <b>Room: TBA</b>			
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
10:30-10:55	ST-3011	Frequency Polygon Estimator of the Mode of a Density Function under Weak Dependence	Ahmad Younso
10:55-11:20	ST-3024	On Efficiency of Split-Plot Response Surface Designs when some Observations are Missing	Yisa Yakubu
11:20-11:45	ST-3026	Locally Correct Confidence Intervals for a Binomial Proportion	Fadlalla Elfadaly
11:45-12:10	ST-3005	Skewed-Kotz Distribution with Application to Financial Stock Returns	Amadou Sarr
<b>Session C1: Numerical Analysis</b> <b>Chair: Vedat Suat Erturk</b> <b>Room: TBA</b>			
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
10:30-10:55	NA-3005	The Application of Differential Transform Method to a BVP arising in Chemical Reactor Theory	Vedat Suat Erturk
10:55-11:20	AM-3009	A Third-Order Shear Deformation Theory for Free Vibration Analysis of Functionally Graded Shells	Mohammad Zannon
11:20-11:45	CM-3003	Usage of the Randomized Kernel Functional Numerical Algorithm	V. Voytishek
11:45-12:10	NA-3003	A Family of Second Derivative Simpson's Type Block Methods for Stiff Systems	Yohanna Awari
12:10-12:35	NA-3007	Fourth Order Numerical Scheme for Two-Dimensional Inhomogeneous Distributed Order Riesz Space-Fractional Diffusion Equation	Muhammad Yousuf

<b>Session C1: Math Biology</b> <b>Chair: Ziyad AlSharawi</b> <b>Room: TBA</b>			
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
10:30-10:55	MB-3013	Three Species Predator-Prey Interactions with Historic Behavior	Mansur Saburov
10:55-11:20	MB-3005	Edge Clustering Coefficient (ECC) based Node Centrality Measure to Identify Important Genes in Alzheimer's Disease	Ahmed Khasim
11:20-11:45	MB-3007	Mathematical Model of Glioma and Chemotherapy	Dua Alahmadi
11:45-12:10	MB-3011	Stability and Bifurcation Analysis of a Discrete-Time Predator-Prey Model with Strong Allee Effect	Ziyad AlSharawi
12:10-12:35	MB-3014	Lens Free High Resolution Computational Imaging using Fourier Techniques	Suhas P. Poyyilveetil
<b>Session C1: Math Education</b> <b>Chair: Saadia Khouyibaba</b> <b>Room: TBA</b>			
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
10:30-10:55	ME-3004	How History of Mathematics Can Help in Teaching and Learning Mathematics	Saadia Khouyibaba
10:55-11:20	ME-3003	Concept-Based & Stem-Focused Math Teachers' Preparation Programs	Ali S. Shaqlaih
11:20-11:45	ME-3001	An Ethnomathematics Ios App Designed to Encourage Emirati Grade Six Students to continue taking Mathematics	Jason Johnson
<b>Special Session C1: Statistical Learning-Data Mining-Probability</b> <b>Chair: Linda Ismail</b> <b>Room: TBA</b>			
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
10:30-10:55	ST-3033	Evaluating Extreme Natural Hazards: An Application to Cyclones	G. De Masi
10:55-11:20	ST-3028	Fuzzy Time Series Forecasting Model Based on Singular Spectrum Analysis Decomposition	Subanar
11:20-11:45	ST-3025	Spectral Embedding of Optimal Weighted Adjacency Matrix (Seowam)	Sihan Huang
11:45-12:10	AM-3024	Inference In Bayesian Networks: Junction Trees Constructions	Linda Smail
<b>Session C1: Partial Differential Equations, Analysis and Control</b> <b>Chair: Amjad Tuffaha</b> <b>Room: TBA</b>			
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
10:30-11:20	DE-3023	TBA	Nader Masmoudi
11:20-11:45	DE-3009	Memory-Type Boundary Control of a Laminated Timoshenko Beam	Abdelaziz Soufyane
11:45-12:10	AN-3017	A Convexity Problem for a Semi-Linear PDE	Layan Elhadj

## LUNCH BREAK 12:30-2:00 PM

### Session C2: Analysis

Chair: Zayid Abdelhadi

Room: TBA

Time	ID	Title	Speaker
14:00 – 14:25	AN-3026	On Logharmonic Mappings with Starlike Analytic Component	Zayid Abdelhadi
14:25 – 14:50	AN-3028	On the Commuting problem of Toeplitz operators acting on the Bergman space	Abdel Rahman Youssef
13:50 - 15:15	AN-3020	Geometric Studies of Normalized Modified Koebe Functions in Terms of Hypergeometric Functions	Firas Ghanim
15:15 - 15:40	AN-3025	Convolution of $\chi$ -orbital Measures on Complex Grassmannians	Mahmoud Al Hashami
15:40 - 16:05	AN-3027	Powers of Quasihomogeneous Toeplitz Operators	Issam Louhichi

### Session C2: Applied Mathematics

Chair: Angel Tocino

Room: TBA

Time	ID	Title	Speaker
14:00-14:25	DE-3004	A Mathematical Approach for Turbulence and Enstrophy in the Taylor Green Vortex Model	Kamyar Mansour
14:25-14:50	AM-3017	Recent Developments on Fully Fuzzy Linear Programming	Mahmoud Alrefaei
14:50-15:15	AM-3020	On MS-Stability of Stochastic Differential Systems	Angel Tocino
15:15-15:40	AM-3025	Description of Ground State of $\lambda$ -Model on the Cayley Tree	Rauda Al Shamsi
15:40-16:05	AM-3028	Fractional Optimal Rearrangement Problems	Hayk Mikayelyan

### Session C2: Discrete Mathematics

Chair: Mustapha Aouchiche

Room: TBA

Time	ID	Title	Speaker
14:00-14:25	DM-3001	On the soEnergy of Graphs	Kahraman Birgin
14:25-14:50	DM-3002	The Edge Metric Dimension of some Subdivisions of the Wheel Graph	M.S. Bataineh
14:50-15:15	DM-3003	Nordhaus–Gaddum Inequality for the Spectral Radius of a Graph	Mustapha Aouchiche

### Session C2: Probability and Applications

Chair: Guillaume Leduc

Room: TBA

Time	ID	Title	Speaker
14:00-14:25	PA-3002	Hybrid Stochastic Differential Systems in Pharmacokinetics	Hana Baili

14:25-14:50	PA-3005	Derivative Formulae for Heat Semigroups on Riemannian Manifolds	James Thompson
14:50-15:15	PA-3006	Decidability of Learning in Finite Settings and Existence of Probabilities	Alberto Gandolfi
15:15-15:40	PA-3007	Convergence of lattice valued options to their Black-Scholes limit	Guillaume Leduc
<b>Session C2: Statistics</b> <b>Chair: Rafiq Hijazi</b> <b>Room: TBA</b>			
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
14:00-14:25	ST-3013	Assessment Practices in the Undergraduate Statistics Programs in the Arab World	Rafiq Hijazi
14:25-14:50	ST-3027	Modification of Generalized Space-Time Autoregressive Model for Prediction Monthly Incidence Rate in Banyumas Regency, Indonesia	Nunung Nurhayati
14:50-15:15	ST-3030	Multiple Regression Model to Examine the Incidence of Government Expenditure on Neonatal Mortality in Nigeria	Abubakar Usman
15:15-15:40	ST-3022	Zero-Inflated Models Application to Maternal Mortality Data	Kassim Tawiah
<b>Special Session C2: Rings, Monoids and Module Theory</b> <b>Chair: Jim Coykendall</b> <b>Room: TBA</b>			
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
14:00-14:25	AA-3042	Factorization of norms in rings of algebraic integers and weighted zero-sum problems	Wolfgang A. Schmid
14:25-14:50	AA-3028	On strongly primary monoids with a focus on puioux monoids	Felix Gotti
14:50-15:15	AA-3030	When is a Puiseux Monoid Atomic?	Marly Gotti
15:15-15:40	AA-3044	On the Notion of Krull Super-dimension	A.N. Zubkov
15:40-16:05	AA-3006	On 2-absorbing Ideals of Commutative Semiring	M. Saleh
<b>Special Session C2: Partial Differential Equations, Analysis and Control</b> <b>Chair: Cristian Enache</b> <b>Room: TBA</b>			
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
14:00-14:25	DE-3005	Determining Functionals for a Non-Conservative, Nonlinear Plate Equation	Justin Webster
14:25-14:50	DE-3016	Global Well-Posedness of the Cauchy Problem for the Jordan-Moore-Gibson-Thompson Equation	Belkacem Said-Houari
14:50-15:15	AN-3010	An Introduction to Metrics and their Uses in Complex Analysis	Ziyad Adwan
15:15-15:40	DE-3015	A Monotonicity Property of the $\mathbb{S}$ -Torsional Rigidity	Cristian Enache

## Excursion: Global Village -Dubai