







قسم علوم الرياضيات

AUA-UI Workshop on Graph Theory, Combinatorics & Applications (GTCA 2022)

		Day 1 (Onlin	ne)			
Session &Time						
KEYNOTE SPEAKER 9:00-10:00	PROF. MARTIN BAČA	Types of modular irreg	ONLINE			
10:00-10:20	Dr. V. Murugan	Decomposition of Compl	ete Graphs into Arbitrary Trees	ONLINE		
10:20-10:40	Ms. Shivani Chauhan	An Introduction to	o edge Laplacian matrix	ONLINE		
		Room No. A	Room No. B			
		Dr. Mohamad Abdallah	Dr. Muhammad Kamran Jamil			
	10:40-11:00	Generalized 4-Connectivity of Alternating	On generalization of some graph operations and			
		Group Networks	their topological indices			
Parallel Online Sessions 10:00-11:40	11:00-11:20	Dr. Joseph Clement Topological characterization of larger cavity cycloarenes and its oligomers	Mr. Iswar Mahato Inertia and energy of eccentricity matrices of trees			
	11:20-11:40	Dr. Mohammad Rizwanullah Measurement of Efficiency and Productivity Using Data Envelopment Analysis [DEA]: A Study of Supply Chain System	Mr. Isyaku Idris Graph Theory Concepts in Infections Control			
12: 15 to 10:00 PM	2: 15 to 10:00 PM Social Program: Excursion to Dubai and Workshop Dinner					









سم علوم الرياضيـــــات

AUA-UI Workshop on Graph Theory, Combinatorics & Applications (GTCA 2022)

	Du	Day 2 (Face to Face)							
Welcome, Registration & Information									
Official Opening (Speech by Dean COS and Chair Mathematical Sciences)									
Presenter		Title							
	PUBLIC TALK ON "CO	MBINATORIAL TOOLS FOR PHY	LOGENETIC TREES"	CIT AUDITORIUM					
WELKER		Caffee Devada & Course Dlaste		CITE A VIDAMODAVIA					
or Igyana		Coffee Break & Group Photo		CIT AUDITORIUM					
	THE VADIETY	OF CENEDAL DOCUTION DOOD! EMC IN	CD A DIL THEODY	CIT AUDITORIUM					
	THE VARIETY	OF GENERAL POSITION PROBLEMS IN	GRAPH THEORY	CIT AUDITORIUM					
LKO									
	Room No. A	Room No. B	Room No. C						
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			Mr Nikson Simarmata						
	Dr. Bilal Ahmad Rather	Dr. Chimere Stanley Anabanti	Wii. I Wikson Sinai mata						
1:00-11:20	Note on distinct eigenvalues of	Group Partition and Ramsey	Graceful Labeling Construction on						
	_	•	Chain Tree Graph Using Adjacency						
	equitable quotient matrices	Numbers	Matrix						
				-					
			Mu Naman Maghan						
11:20-11:40	Mr. Zeveliano Zidane Barack	Dr. Sammani Danwawu Abdullahi	Mr. Noman Maznar						
	Modular Irragularity Strangth of		H-MUD: Securing IoT Devices using						
	Disjoint Union Graphs	Some Problems in Discrete Aspects of Stochastic Geometry	improved Manufacturer Usage						
			Description device registration process						
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11:40-12:00	Dr. Gemma P. Salasalan	Dr. Yuliva Zelenvuk	Dr. Krishnan Sivasubramanian						
		•							
	A variant of Hop Domination in	Counting Symmetric Bracelets	The 2-Steiner Distance Matrix of a						
	Graphs		Tree						
1	PROF. OLKMAR VELKER DF. ISMAEL ONZÁLEZ YERO :00-11:20	Presenter Prof. OLKMAR VELKER OF. ISMAEL ONZÁLEZ YERO Room No. A Dr. Bilal Ahmad Rather Note on distinct eigenvalues of equitable quotient matrices Mr. Zeveliano Zidane Barack Modular Irregularity Strength of Disjoint Union Graphs Public Talk on "CO The Variety A prof. Silal Ahmad Rather Note on distinct eigenvalues of equitable quotient matrices Mr. Zeveliano Zidane Barack Modular Irregularity Strength of Disjoint Union Graphs Public Talk on "CO The Variety The Variety	Presenter PROF. OLKMAR PUBLIC TALK ON "COMBINATORIAL TOOLS FOR PHY VELKER Coffee Break & Group Photo OF. ISMAEL ONZÁLEZ YERO Room No. A Room No. B Dr. Bilal Ahmad Rather Note on distinct eigenvalues of equitable quotient matrices Mr. Zeveliano Zidane Barack Modular Irregularity Strength of Disjoint Union Graphs Dr. Sammani Danwawu Abdullahi Some Problems in Discrete Aspects of Stochastic Geometry 240-12:00 Dr. Gemma P. Salasalan A Variant of Hop Domination in Counting Symmetric Bracelets	Presenter Prof. OlkMar Prof. OlkMar Public Talk on "COMBINATORIAL TOOLS FOR PHYLOGENETIC TREES" Velker Coffee Break & Group Photo The Variety Of General Position Problems in Graph Theory Prof. OlikMar Public Talk on "COMBINATORIAL TOOLS FOR PHYLOGENETIC TREES" Velker Coffee Break & Group Photo The Variety Of General Position Problems in Graph Theory Prof. Sammani Danwawu Abdullahi Some Problems in Discrete Aspects of Stochastic Geometry Dr. Genmar P. Salasalan A Variant of Hop Domination in Counting Symmetric Bracelets Title Prof. Title Room No. C Mr. Nikson Simarmata Graceful Labeling Construction on Chain Tree Graph Using Adjacency Matrix Mr. Noman Mazhar H-MUD: Securing IoT Devices using improved Manufacturer Usage Description device registration process Dr. Yuliya Zelenyuk Counting Symmetric Bracelets Title Prof. Title Prof. Title Prof. Mr. Noman Mazhar H-MUD: Securing IoT Devices using improved Manufacturer Usage Description device registration process Dr. Yuliya Zelenyuk Counting Symmetric Bracelets Title Prof. Title Prof. Title Prof. Mr. Noman Mazhar H-MUD: Securing IoT Devices using improved Manufacturer Usage Description device registration process					





Department of Mathematical Sciences

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	12:00-12:20	Dr. Fei Peng A Construction for Cube Ramsey	Dr. Sarfraz Ahmad On LCM Lattice of the Edge Ideals Associated to the Cycle and Complete Graphs	Mr. Vignesh Ravi Predictive Ability of Open and Closed Neighborhood Degree Sum-Based Topological Descriptors of Breast Cancer Drugs	
12:30-1:30			Lunch Break		F3
Session &Time	Presenter		Title		
KEYNOTE SPEAKER 1 13:30-14:15	PROF. KINKAR CHANDRA DAS	Some graph invari	CIT AUDITORIUM		
KEYNOTE SPEAKER 2 14:15-15:00	Prof. Hao Huang	A Non-Uniform Extension of Baranyai's Theorem			CIT AUDITORIUM
15.00-15.30		Room No. A	Coffee Break Room No. B	Room No. C	CIT AUDITORIUM
Parallel Sessions 15:30-16:30	15:30-15:50	Dr. Hend Alrasheed On the Utilization of Shortest Paths in Complex Networks	Dr. Vincent Vajnovszki Fibonacci q-decreasing words: enumerative results and Gray codes	Dr. M. Rosary On Reverse Valency Based Topological Descriptors of Boron Nanotubes	
	15:50-16:10	Dr. Dorota Kuziak On the Steiner General Position Problem in Graphs	Dr. Tomislav Pejković Some properties of p-adic continued fractions	Dr. Eugen Mandrescu Relationships between core(G) and ker(G) of an almost bipartite graph	
	16:10-16:30	Dr. Stefan Gyürki Goal-minimally k-diametric graphs	Dr. Mario Lefebvre On the number of states in a modified M/M/2/n queueing model	Dr. Milica Andelic An Extended Eigenvalue-Free Interval for the Eccentricity Matrix of Threshold Graphs	





جامعة الإمارات العربية المتحدة United Arab Emirates University

سم علوم الرياضيات

AUA-UI Workshop on Graph Theory, Combinatorics & Applications (GTCA 2022)

	Day 3				
Session &Time	Presenter				
KEYNOTE SPEAKER 1 9:00-9:45	Prof. Sebastian M. Cioabă	SPECTRAL MOORE THEOREMS FOR GRAPHS AND HYPERGRAPHS			CIT AUDITORIUM
KEYNOTE SPEAKER 2 9:45-10:30	PROF. KIKI A. SUGENG	SOME NEW RESULTS ON MODULAR IRREGULARITY STRENGTH OF GRAPHS			CIT AUDITORIUM
10:30-11:00			Coffee Break		CIT AUDITORIUM
		Room No. A	Room No. B	Room No. C	
	11:00-11:20	Dr. Denny Riama Silaban Local Antimagic Chromatic Number of Trees	Dr. Imran Javaid Micro and Macro Models of Granular Computing	Dr. Rakesh Jana On the Bipartite Distance Matrix of a Nonsingular Tree	
Parallel Sessions 11:00-12:30	11:20-11:40	Dr. Devsi Bantva Optimal Radio Labelings of the Cartesian Product of Two Graphs	Mr. Hafiz Muhammad Bilal The NF-Number of Two Complete Graphs Joined by a Common Vertex	Ms. Pallabi Manna On some classes of forbidden subgraph of power graphs	
	11:40-12:00	Dr. Vijay Kumar Bhat Independence in Multiresolving Sets of Certain Plane Graphs	Dr. Abdessamad Tridane Stochastic SIR epidemic model on the scale-free networks	Dr. Artem Maksaev Automorphisms of the total graph over a finite field	



Department of Mathematical Sciences

12:30-13:30 KEYNOTE SPEAKER 13:30-14:15	12:00-12:20 PROF. EDY TRI BASKORO	Dr. Aparna Lakshmanan S. On Geodesic Leech Labeling of Cycles and Wheels Lunch Break RAMSEY MINIMAL GRAPH FOR MATCHING Mr. Santanu Mandal Seidel matrix of chain graphs and threshold graphs			F3 CIT AUDITORIUM
KEYNOTE SPEAKER 14:15-15:00	Prof. Volkmar Welker	MATROID TYPE COMPLEXES	CIT AUDITORIUM		
		Room No. A	Room No. B	Room No. C	
Parallel Sessions 15:20-15:40	15:00-15:20	Dr. Muhammad Kashif Shafiq On Metric Dimension of Subdivision of Pn × Cn	Dr. Zahid Raza Expected value of first Zagreb connection index in random cyclooctatetraene chain, random polyphenyls chain and random chain network	Ms. Khadija Bibi Randic Index for Hypertree and its Corona Product with other Graphs	
	15:20-15:40	Dr. Syed Ahtsham Ul Haq Bokhary Counting the Numbers of Paths of All Lengths in Symmetric Dendrimers and Its Applications	Dr. Izhar Uddin Fixed Point Theory and its Applications to Graph Theory	Ms. Fareeha Jamal On Inverse Sum Indeg Energy of Graphs	
15:35-16:00	Closing Remark & Coffee Break			Outside F3 134	