

Technical Programme : Theme - ICT, Mathematics and Statistics

RESCON 2024

Friday, 1st November 2024

11:00 am - 1:10 pm	Session ID		Session Chairs	Location
	ICTMS 1		Dr. Niluka Rodrigo nilukar@sci.pdn.ac.lk	B3.1
			Dr. Isuru Bandara insurer@engmis.pdn.ac.lk	
	Time	Abstract ID	Title	Presenter
	11.00 - 11.15	14	GOAL PROGRAMMING MODEL TO DETERMINE MINIMUM SUPPORT PRICE FOR PADDY FARMERS	K.P.G.N.S. Meththananda
	11.15 - 11.30	16	A HYBRIDIZED METHOD TO SOLVE THE INTEGRATED PROBLEM OF VEHICLE ROUTING AND SCHEDULING AT THE COLLECTION CENTER	S.R. Gnanapragasam
	11.30 - 11.45	46	APPLYING ANT COLONY OPTIMIZATION ALGORITHM TO SOLVE THE DETERMINISTIC SINGLE OBJECTIVE ASSIGNMENT PROBLEM	C.P.S. Pathirana
	11.45 - 12.00	200	NEW ITERATIVE TECHNIQUE FOR SOLVING NONLINEAR EQUATIONS	H.H. Safwathuz Ziya
	12.00 - 12.15	201	METHOD OF DIRECTLY DEFINING INVERSE MAPPING FOR CAUCHY REACTION-DIFFUSION PROBLEMS	B.S.K. De Silva
	12.15 - 12.30	242	ENHANCING PITCH DETECTION BY DEVELOPING METHODS OF TIME-FREQUENCY ANALYSIS	K.D.K. Egodawele
	12.30 - 12.45	271	NOVEL METHOD TO SOLVE THE TRAVELING SALESMAN PROBLEM USING DISTANCE MATRIX.	S.M.T. Ruwan
	12.45 - 1.00	278	OPTIMAL VACCINATION AND ISOLATION STRATEGY TO CONTROL THE SPREAD OF COVID-19 IN SRI LANKA	D.M.N.K. Dissanayaka
	Panel Discussion			

LUNCH BREAK

2:00 pm - 4:15 pm	Session ID		Session Chairs	Location
	ICTMS 2		Dr. R Palamakumbura rpalam@eng.pdn.ac.lk	B3.1
			Dr. Rekha De Silva krdesilva@sci.pdn.ac.lk	
	Time	Abstract ID	Title	Presenter
	2.00 - 2.15	173	SOLVING HEAT EQUATION USING RADIAL BASIS FUNCTION FINITE DIFFERENCE METHOD	W.H.D.T. Karunaratna
	2.15 - 2.30	189	FACTORS AFFECTING PROMPT RESPONSE IN EMERGENCY SITUATIONS AMONG UNDERGRADUATES IN SRI LANKA	T.M.N. Silva
	2.30 - 2.45	198	METHOD OF DIRECTLY DEFINING THE INVERSE MAPPING FOR SOLUTIONS OF SINGULAR BOUNDARY VALUE PROBLEMS	B.S.K. De Silva
	2.45 - 3.00	203	OPTIMIZING PERFORMANCE OF BASIC SIMULATED ANNEALING ALGORITHM	G.R.J. Piyatilake
	3.00 - 3.15	211	MULTI-OBJECTIVE OPTIMIZATION MODEL TO SUPPORT FRESHLY CUT VEGETABLE PROCESSING DECISIONS	Thinendra Wijesuriya
	3.30 - 3.45	218	A REDUCED ORDER MODEL FOR BREAST CANCER DETECTION	H.D.A.W. Subawickrama
	3.45 - 4.00	219	INADEQUACY OF ZERNIKE POLYNOMIALS FOR ACCOUNTING THE VARIABILITY OF WAVEFRONT MEASUREMENTS	M.P.D.S. Lakshmi
	4.00 - 4.15	270	GENETIC ALGORITHM APPROACH FOR THE BALANCED ASSIGNMENT PROBLEM.	S.B.R.D. Dhananjalee
	Panel Discussion			

Saturday, 2nd November 2024

8:45 am- 10:00 am	Session ID		Session Chairs		Location	
	ICTMS 3		Prof. Saluka Kodituwakku salukak@sci.pdn.ac.lk		A1.1	
			Dr. Ruwan Nawarathne ruwand@sci.pdn.ac.lk			
	Time	Abstract ID	Title		Presenter	
	8.45 - 9.00	43	ENHANCED AUTOMATED RECOGNITION OF SRI LANKAN WILD CAT SPECIES UTILIZING FINE-TUNED DEEP LEARNING MODELS		K.A.N.C. Kanangama	
	9.00 - 9.15	6	DEEP LEARNING BASED APPROACH FOR ROAD ACCIDENT SEVERITY PREDICTION		G. Thayani	
	9.15 - 9.30	27	MACHINE LEARNING-DRIVEN DISEASE DIAGNOSIS AND MANAGEMENT FOR DIVERSE CROPS USING CNN AND TRANSFER LEARNING		M.S. Gunarathna	
	9.30 - 9.45	216	COLOR CORRECTION MODEL IN DEEP LEARNING FOR FISH HABITAT MONITORING		W.M.E.Y. Sarathchandra	
9.45 - 10.00	268	CONVERTING WIREFRAME IMAGES TO UI DESIGNS USING CONDITIONAL ADVERSARIAL NETWORKS		K.G.S.N. Samaraweera		
		Panel Discussion				

8:45 am - 10:15 am	Session ID		Session Chairs		Location	
	ICTMS 4		Dr. AMCUM Athapattu chathurikaa@sci.pdn.ac.lk		B3.1	
			Dr. Ashwini K Amarasinghe ashwini@sci.pdn.ac.lk			
	Time	Abstract ID	Title		Presenter	
	8.45 - 9.00	28	NOVEL VARIATION OF THE RABIN CRYPTOSYSTEM USING CONTINUED FRACTIONS		S.N.B.M.C.M. Nawarathna	
	9.00 - 9.15	130	CORDIAL LABELING OF PENDANT GRAPHS		S.M.K. Sakalasooriya	
	9.15 - 9.30	134	ODD PRIME LABELING OF UNION GRAPHS OBTAINED BY STAR GRAPH $k_{(1,2)}$ & HELM GRAPHS H_n		L.H.B. Shavinda	
	9.30 - 9.45	161	PRIME FACTOR COUNTING METRIC ON POSITIVE RATIONAL NUMBERS		M.A. Godakanda	
	9.45 - 10.00	263	CORDIAL LABELING OF BLOOM GRAPHS WITH DIFFERENT REGULAR POLYGON PETALS		D.M.N.U.B. Dasanayake	
	10.00 - 10.15	297	SUPER EDGE MAGIC TOTAL LABELING FOR TRIANGLE SNAKE GRAPH		G.L.N. Sandarekha	
		Panel Discussion				

TEA BREAK

10:30 am - 12:30 pm	Session ID		Session Chairs	Location
	ICTMS 5		Prof. Darshana Yapa roshany@sci.pdn.ac.lk	A3.1
			Dr. Sachith Abeyesundara sachitha@sci.pdn.ac.lk	
	Time	Abstract ID	Title	Presenter
	10.30 - 10.45	61	A NETWORK-BASED INVESTIGATION INTO TUBERCULOSIS(TB) SPREAD IN NUWARA ELIYA DISTRICT, SRI LANKA	P.N.M. Perera
	10.45 - 11.00	128	UNDERSTANDING RAINFALL DYNAMICS IN KEGALLE, SRI LANKA: INSIGHTS FROM CIRCULAR AND LINEAR ANALYSIS	H.W.N.H. Dissanayaka
	11.00 - 11.15	135	SURVIVAL ANALYSIS OF OVARIAN CANCER PATIENTS AND INFLUENTIAL SOCIO-DEMOGRAPHIC AND GENETIC FACTORS	S.L.S.F. Neelawansha
	11.15 - 11.30	142	IMPACT OF RAINFALL AND FUEL PRICE ON WHOLESALE PRICE OF UPCOUNTRY VEGETABLES	I.J.A. Ruhunuge
	11.30 - 11.45	149	COMPARISON OF REGRESSION METHODS FOR MODELING LONGITUDINAL DATA	L.D.M.A. Dhaneshwara
	11.45 - 12.00	177	RELATIONSHIP BETWEEN MACROECONOMIC VARIABLES AND SECTORAL INDICES: EVIDENCE FROM COLOMBO STOCK EXCHANGE	M.I.F. Masrin
	Panel Discussion			

10:30 am - 12:30 pm	Session ID		Session Chairs	Location
	ICTMS 6		Dr. Anura Gunarathne anura@as.rjt.ac.lk	A3.2
			Dr. Thrindu Dewasurendra mangalagama.dewasurendra@sci.pdn.ac.lk	
	Time	Abstract ID	Title	Presenter
	10.30 - 10.45	12	LAND ALLOCATION MODEL FOR SELECTED UPCOUNTRY VEGETABLES IN SRI LANKA AND CASE STUDY IN NUWARA ELIYA DISTRICT	A.D.K.C.D Jayasinghe
	10.45 - 11.00	36	INTEGER LINEAR PROGRAMMING MODEL FOR TUTOR WORKLOAD ASSIGNMENT: A CASE STUDY	K.P.G.N.S. Meththananda
	11.00 - 11.15	183	ENHANCING URBAN TRAFFIC FLOW THROUGH INTEGRATED OPTIMIZATION AND STATISTICAL ANALYSIS	M.I. Salay
	11.15 - 11.30	194	APPLICATION OF KRUSKAL'S ALGORITHM IN FINDING BASIC FEASIBLE SOLUTIONS FOR TRANSPORTATION PROBLEMS	E.M.U.S.B.K. Ekanayake
	11.30 - 11.45	223	INTERGRATING MAXIMUM FLOW AND MINIMUM COST FLOW FOR OPTIMIZED TRANSPORTATION NETWORKS	D.C. Dilpriya
	11.45 - 12.00	296	SHORTEST PATH IN MULTI-SOURCE SINGLE-GOAL SCENARIOS: AN A* ALGORITHM WITH DISTANCE TRANSFORM APPROACH	S. Sinthumathy
	12.00 - 12.15	298	OPTIMAL PREMARITAL SCREENING RATE TO CONTROL THALASSEMIA TRANSMISSION	A.M.P. Chandrasiri
	12.15 - 12.30	299	MATHEMATICAL MODELING OF NILE TILAPIA FISH POPULATION DYNAMICS WITH RESTOCKING AND HARVESTING IN 'MAELIYA' RESERVOIR	D.D.I.L. Jayawardhane
	Panel Discussion			

LUNCH BREAK

2:15 pm - 4:00 pm	Session ID		Session Chairs		Location	
	ICTMS 7		Prof. Pushpakanthei Wijekoon pushpaw@sci.pdn.ac.lk		A3.1	
			Dr. Mahasen Dehideniya mahasen@sci.pdn.ac.lk			
	Time	Abstract ID	Title			Presenter
	2.15 - 2.30	193	BIRD SPECIES CLASSIFICATION USING STATISTICAL FEATURE ANALYSIS OF AVIAN FLIGHT CALLS			K.M.L.K. Mahanayake
	2.30 - 2.45	274	SPATIAL AND TEMPORAL PATTERNS OF COMMUNICABLE DISEASES IN SRI LANKA			M.S.F. Aqeelah
	2.45 - 3.00	277	MODELING RECORD-BREAKING ODI CRICKET BATTING PERFORMANCES WITH EXTREME VALUE THEORY			K.D.Y.R. Kumarage
	3.00 - 3.15	279	STATISTICAL ANALYSIS ON CHILD INJURY ADMISSIONS: A CASE STUDY			W.M.A.S. Weerakoon
	3.15 - 3.30	281	DETERMINING HOSPITAL STAY DURATION FOR SICK CHILDREN: A CASE STUDY			G.M.M.S. Gunawardhana
		Panel Discussion				

1.30 pm - 4:00 pm	Session ID		Session Chairs		Location	
	ICTMS 8		Dr. Nilan M Chathuranga chathuranga.mudalige@sci.pdn.ac.lk		A3.2	
			Dr. PGRS Ranasinghe rajithamath@sci.pdn.ac.lk			
	Time	Abstract ID	Title			Presenter
	1.30 - 1.45	11	PRIME LABELING OF CENTERLESS DOUBLE WHEEL GRAPH USING PYTHON PROGRAMMING			H.M.O.D. Herath
	1.45 - 2.00	34	SYMMETRICITY OF POLYNOMIALS DEFINING DISTINGUISHED VARIETIES ON THE SYMMETRIZED BIDISK			M.G.T.T. Senevirathne
	2.15 - 2.30	58	(k, c) - CHOOSABILITY OF CYCLE GRAPHS, WHEEL GRAPHS AND GENERALIZED PETERSEN GRAPHS $GP(n,1)$			K.D. Sajeena
	2.30 - 2.45	153	A FIFTH-ORDER RUNGE-KUTTA METHOD FOR SOLVING QUADRATIC RICCATI EQUATION			B.H.O. Jayasinghe
	2.45 - 3.00	188	MASS OF RAYS ON COMPLETE OPEN SURFACES			N.D. Hewaradage
3.00 - 3.15	207	UNVEILING RAINBOW CONNECTIONS IN EXTENDED SANDAT GRAPHS			G.W.M.M.K. Dheerasinghe	
		Panel Discussion				