

International Conference in Data Science 2023 (ICDS 2023)

19th & 20th December 2023

At Department of Statistics, University of Colombo

Full Schedule

Time	Activity
DAY 1	
9.00am -12.00pm	Workshop # 1 Introduction to Explainable AI for Enhanced Transparency in AI Models
1.00pm – 4.00pm	Workshop # 2 Preserving Privacy in Machine Learning & Future of Information Retrieval with Large Language Models
DAY 2	
Zoom Link https://zoom.us/j/92625635043?pwd=MkFCSFM2ZzZxcjZtSTNIZnp2ZTVnUT09 Meeting ID: 926 2563 5043 Passcode: ICDS2023	
08.30 am – 08.40 am	Arrival of guests and lighting the oil lamp
08.40 am – 08.45 am	Welcome address by the Director CDS – Dr. Dilshani Tissera
08.45 am – 08.50 am	Address by the Head, Department of Statistics – Dr. Rushan Abeygunawardane
08.50 am – 8.55 am	Address by the Dean, Faculty of Science – Senior Prof. Upul Sonnadara
08.55 am – 9.00 am	Address by the Vice Chancellor – Senior Prof. (Chair) H. D. Karunaratne
9.00 am – 09.30 am	Keynote Speech 1 – Ms. Devini Senaratna
09.30 am – 10.00 am	Keynote Speech 2 – Prof. David Hunter
10.00 am – 10.15 am	Mini-hackathon – Final Award Ceremony
10.15 am – 10.45 am	Keynote Speech 3 – Dr. Rajitha Navarathna
10.45 am – 11.15 am	Keynote Speech 4 – Prof. Saman Halgamuge
11.15 am – 11.20 am	Vote of Thanks – Dr. S. D. Viswakula (Co-Chair ICDS 2023)
11.20 am – 12.30 pm	Refreshments
12.30 pm – 02.30 pm	Technical Session I
02.30 pm – 03.00 pm	Break
03.00 pm – 04.30 pm	Technical Session II
04.30 pm – 04.40 pm	Vote of Thanks – Dr. C. Priyadarshani (Secretary ICDS 2023)

Technical Session I – Track 1

NLP, Unsupervised Learning and Forecasting

Session Panel	Co – Chairs	Dr. G P Lakraj and Dr. S G Dharmarathna
	Moderators	Ms. Dilaxiha Yoganathan, Ms. M K D Tharushika
	Technical Person	Mr. Kasun Nanayakkara
Zoom Link	https://zoom.us/j/93416737129?pwd=a3E4M1RqekFOYjdUMjlocElncWlKdz09 Meeting ID: 934 1673 7129 Passcode: ICDS2023	
Time	Information	
12.30 pm – 12.50 pm	Presenter	T S M A Muthalib
	Paper ID	53
	Title	Analyzing the nuances of supermarket customer behavior for enhanced retail marketing strategies: A case study on customer purchases
	Co-authors	K.A.D Deshani, Oshada Senaweera
12.50 pm – 01.10 pm	Presenter	D M P Disanayaka
	Paper ID	40
	Title	Deep Learning Model for Lip Synchronization in Sinhala Language
	Co-authors	A R Weerasinghe
01.10 pm – 01.30 pm	Presenter	S P P M Sudasinghe
	Paper ID	35
	Title	Predicting the Outcome of T20 International Matches Based on Historical Statistics and Crowd Opinions
	Co-authors	S D Viswakula, G P Lakraj
01.30 pm – 01.50 pm	Presenter	K N W Tennakoon
	Paper ID	37
	Title	Identifying the Frequently Occurring Aquatic Insect Assemblages Using Association Rule Mining Techniques
	Co-authors	M D T Attygalle, P K T N S Pallewatta, M S Kanakarathna
01.50 pm – 2.10 pm	Presenter	B L I Kalpani
	Paper ID	46
	Title	Developing a Forecasting Model for the Exports of Ceylon Tea
	Co-authors	C H Magalla

02.10 pm – 2.30 pm	Presenter	M. S. D Perera
	Paper ID	22
	Title	An evolutionary keystroke dynamic-based stress detection system through an incremental learning based approach for IT professionals
	Co-authors	S V Bartholomeusz, H M Samadhi, Chathuranga Rathnayake, Devanshi Ganegoda

Technical Session I – Track 2

Computer Vision

Session Panel	Co – Chairs	Dr. R A B Abeygunawardana and Mr. Oshada Senaweera
	Moderators	Ms. Senuri Yasara, Ms. Navoda Hettige
	Technical Person	Mr. Nipuna Suduwella
Zoom link	https://zoom.us/j/93416737129?pwd=a3E4M1RqekFOYjdUMjlocEINCWIKdz09 Meeting ID: 934 1673 7129 Passcode: ICDS2023	
Time	Information	
12.30 pm – 12.50 pm	Presenter	W M D D B Wijesundara
	Paper ID	29
	Title	Skin cancer image classification using Vision Transformer network
	Co-authors	C T Wannige, M K S Madushika, P L A N Liyanage
12.50 pm – 01.10 pm	Presenter	W M D Nawanjana
	Paper ID	48
	Title	A Comparative Study of Deep Learning Approaches with Vision Transformers for Multi-Class Dermoscopic Image Classification
	Co-authors	G P Lakraj
01.10 pm – 01.30 pm	Presenter	P Gajithira
	Paper ID	41
	Title	DR-Vision: A Vision Transformer Model for Diabetic Retinopathy Classification using Fundus Images
	Co-authors	M G A Saumyamala, K A D Deshani
01.30 pm – 1.50 pm	Presenter	B K A S Rodrigo
	Paper ID	54
	Title	A Deep Learning Based Approach for Car Insurance Claim Management
	Co-authors	C H Magalla, Prasad Wimalaratne
01.50 pm – 02.10 pm	Presenter	E Sankeetha
	Paper ID	56
	Title	Suspicious Activity Likelihood Detection, Indication & Tracking, and Alert System to Prevent Crimes.

	Co-authors	T S W Walagedara, A J O Geenath, G R S D Gunasinghe, D S Alwis
02.10 pm – 2.30 pm	Presenter	Janudi Ranasinghe
	Paper ID	15
	Title	Convolutional Neural Network and Vision Transformer Models with Dynamic Attention For Emotion Recognition In Facial Dynamics-Based Stress Detection
	Co-authors	Amantha Jayathilake, Samadhi Rathnayake, Devanshi Ganegoda

Technical Session I – Track 3

Applications in Machine Learning

Session Panel	Co – Chairs	Dr. M D T Attygalle and Dr. K A D Deshani
	Moderators	Ms. Udara Kumaratunga, Mr. Shashika Ruwankumara
	Technical Person	Mr. Shashika Ruwankumara
Zoom link	https://zoom.us/j/93416737129?pwd=a3E4M1RqekFOYjdUMjlocEINCWIKdz09 Meeting ID: 934 1673 7129 Passcode: ICDS2023	
Time	Information	
12.30 pm – 12.50 pm	Presenter	W M H G T C K Weerakoon
	Paper ID	38
	Title	Feature Engineering and Music Genre Classification: A Showdown between XGBoost and Neural Networks
	Co-authors	M S H Peiris, P B S N Ariyathilake
12.50 pm – 01.10 pm	Presenter	W D Nilakshi Sandeepanie
	Paper ID	43
	Title	Paddy Crop Quality Monitoring and Mapping Application using Object Detection Techniques.
	Co-authors	Samadhi Rathnayake, Amali Gunasinghe
01.10 pm – 01.30 pm	Presenter	E A I P De Silva
	Paper ID	26
	Title	A Comparative Study of Academic Performance between Undergraduate Athletes and Non-Athletes of the Faculty of Science, University of Colombo using Machine Learning Techniques
	Co-authors	G. H. S. Karunarathna
01.30 pm – 1.50 pm	Presenter	T J Kotelawala
	Paper ID	8
	Title	Development of a Forecasting Model to Determine the Interest Rate in Sri Lanka – An Approach Based on the 91-Day Treasury Bill Rate
	Co-authors	S D Viswakula
01.50 pm – 02.10 pm	Presenter	H H D Malithi Pramoda Halpandeniya
	Paper ID	49

	Title	IoT Based Smart Paddy Field Monitoring & Water Management System
	Co-authors	Samadhi Rathnayake, Amali Gunasinghe
02.10 pm – 2.30 pm	Presenter	G P Paranawithana
	Paper ID	23
	Title	Application of Feature Selection and Machine Learning for non-Invasive Breast Cancer Prediction Using Circulating MicroRNAs

Technical Session II – Track 3

Parallel Session I - Applications in Machine Learning

Session Panel	Co – Chairs	Dr. G P Lakraj and Dr. A A Sunethra
	Moderators	Ms. Senuri Yasara, Ms. Navoda Hettige
	Technical Person	Mr. Kasun Nanayakkara
Zoom link	https://zoom.us/j/92584323504?pwd=TkZNSStCeVA2WkZ5RHJVUjhqcNlDz09 Meeting ID: 925 8432 3504 Passcode: ICDS2023	
Time	Information	
03.00 pm – 03.20 pm	Presenter	S I Ubayawickrema
	Paper ID	51
	Title	Using Causal Inference in Portfolio Optimization: A Case Study
	Co-authors	K M M H Siriwardana, S D Viswakula
03.20 pm – 03.40 pm	Presenter	R A C Tharundi
	Paper ID	57
	Title	A Study about Mental Disorders Among Psychiatric Patients in Kalutara District: A Hospital-Based Study
	Co-authors	A A Sunethra
03.40 pm – 4.00 pm	Presenter	B D S Suwaris
	Paper ID	1
	Title	The Study on Malaria Cases Diagnosed in Sri Lanka after Returning From Malaria-Endemic Countries
	Co-authors	B D S Suwaris
04.00 pm – 4.20 pm	Presenter	Abhiroop Chatterjee
	Paper ID	50
	Title	Ensemble-Based Classification of COVID-19 Radiographic Images using Spatial, Textural, and Intensity-Based Features
	Co-authors	Susmita Ghosh

Technical Session II – Track 3

Parallel Session II - Applications in Machine Learning

Session Panel	Co – Chairs	Dr. K A D Deshani and Dr. I T Jayamanne
	Moderators	Mrs. Udara Kumaratunga, Mr. Shashika Ruwankumara
	Technical Person	Mr. Nipuna Suduwella
Zoom link	https://zoom.us/j/92584323504?pwd=TkZNSStCeVA2WkZ5RHJVUjhhcnNldz09 Meeting ID: 925 8432 3504 Passcode: ICDS2023	
Time	Information	
03.00 pm – 03.20 pm	Presenter	D S Sonnadara
	Paper ID	6
	Title	A machine learning approach for predicting the depression status among undergraduates
	Co-authors	S D Viswakula, M D T Attygalle
03.20 pm – 03.40 pm	Presenter	M D T U Ranasinghe
	Paper ID	42
	Title	Comparative Analysis of Machine Learning Algorithms for Breast Cancer Tumor Grade Prediction
	Co-authors	J H D S P Tissera
3.40pm - 4.00pm	Presenter	Dhammika Amaratunga
	Paper ID	27
	Title	Comparing CT Scan Images of Lungs