International Statistics Conference 2024

28 - 29 December, 2024 @ Cinnamon Lakeside Colombo, Sri Lanka



Invited Group Sessions



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for Data Classification



Session Number: 01 Session Title: Biostatistics and Bioinformatics

- Day: Day 1
- Time: 1.30pm 3.00pm
- Venue: Kings Court
- Session Chair: Dr. Anurika De Silva





• Speakers

1. Dr. Anurika De Silva

University of Melbourne, Australia



Abstract Title:

Demystifying estimands in non-inferiority trials in anaesthesia: Insights from the CHEWY trial



2. Dr. Rushani Wijesuriya

Murdoch Children's Research Institute and University of Melbourne, Australia



Abstract Title:

A roadmap for systematic identification and analysis of multiple biases in causal inference



3. Dr. Saritha Kodikara

University of Melbourne, Australia



Abstract Title:

Microbial network inference for longitudinal microbiome studies with LUPINE



Session Number: 02 Session Title: Time Series Analysis and Forecasting

- Day: Day 1
- Time: 1.30pm 3.00pm
- Venue: Goodies Meeting Room 1
- Session Chair: Dr. Priyanga Talagala





• Speakers

1. Prof. Choo Wei Chong

Universiti Putra Malaysia, Malaysia



Abstract Title:

Forecasting stock volatility using a robust GARCH-MIDAS model



2. Dr. Chaturangi Wickramaratne

International Water Management Institute (Global Headquarters), Sri Lanka



Abstract Title:

Modelling water quality in small scale aquaculture ponds using machine learning techniques



3. Dr. Li Li

University of Science & Technology Beijing, China



Abstract Title:

Feature-based intermittent demand forecast combinations: accuracy and inventory implications



Session Number: 03 Session Title: Bayesian and Machine Learning Methods with Applications

- Day: Day 1
- Time: 1.30pm 3.00pm
- Venue: Dukes Court 1
- Session Chair: Prof. Saman Muthukumarana





- Speakers
- 1. Ms. Nayanthi Karunanayake
 - University of Manitoba, Canada



Abstract Title:

A bayesian kalman filter model for estimating the actual sea surface level using the upward-looking sonar measurements

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2. Dr. Shruti Kaushik

RxDataScience Inc., USA



Abstract Title:

Harnessing AI for transformative healthcare and pharmaceutical applications



3. Dr. Surani Matharaarachchi University of Manitoba, Canada



Abstract Title:

Uncovering symptoms and predicting long COVID using social media tweets and clinical notes data: A machine learning approach



4. Prof. Saman Muthukumarana University of Manitoba, Canada



Abstract Title:

Addressing class imbalance in classification tasks with applications



Session Number: 04 Session Title: Official Statistics and Data Ethics

- Day: Day 1
- Time: 1.30pm 3.00pm
- Venue: Dukes Court 2
- Session Chair: Prof. Luca Di Gennaro Splendore





• Speakers

1. Prof. Luca Di Gennaro Splendore University of Malta, Malta



Abstract Title:

Democracy dies in darkness without official statistics



2. Mr. Kumafan S. Dzaan

Central Bank of Nigeria, Nigeria



Abstract Title:

Unleashing the power of data: Harnessing the synergy between official statistics and data science in Nigeria



2. Associate Prof. Praveen Kumar Chandigarh University, India



Abstract Title:

Role of Human Resource (HR) Analytics and Metaverse in Employee Engagement and Turnover Intention



Session Number: 05 Session Title: Blockchain and Omics Data Analytics

- Day: Day 2
- Time: 9.40am 10.40am
- Venue: Dukes Court 1
- Session Chair: Associate Prof. Cuneyt Akcora





• Speakers

Associate Prof. Cuneyt Akcora University of Central Florida, USA



Abstract Title:

Machine learning for blockchain data analysis: progress and opportunities



2. Associate Prof. Pratyaydipta Rudra Oklahoma State University, USA



Abstract Title:

Partitioning variance in generalized linear mixed models



Session Number: 06 Session Title: Statistics in Sports

- Day: Day 2
- Time: 11.00am 1.00pm
- Venue: Goodies Meeting Room 1
- Session Chair: Dr. Harsha Perera





• Speakers

1. Dr. Nirodha Epasinghe

Simon Fraser University, Canada



Abstract Title:

What does rally length tell us about player characteristics in tennis?



2. Mr. Hashan Pieris

Simon Fraser University, Canada



Abstract Title:

Analysis of the impact of unforced errors in tennis



3. Prof. Tim Swartz

Simon Fraser University, Canada



Abstract Title: Identify soccer styles



4. Prof. Saman Muthukumarana University of Manitoba, Canada



Abstract Title:

Statistical modeling for estimating baseball batting metrics



Session Number: 07

Session Title: Data Science and Machine Learning Insights for Data Classification

- Day: Day 2
- Time: 11.00am 1.00pm
- Venue: Dukes Court 1
- Session Chair: Dr. Surani Matharaarachchi

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• Speakers

1. Associate Prof. Dixon Vimalajeewa University of Nebraska Lincoln, USA



Abstract Title:

Unveiling new dimensions in gait dynamics through an advanced self-similar measure



2. Dr. Surani Matharaarachchi

University of Manitoba, Canada



Abstract Title:

Deep-ExtSMOTE: Integrating autoencoders for advanced mitigation of class imbalance in high-dimensional and big data classification



3. Associate Prof. Ritambhara Singh Brown University, USA



Abstract Title:

Single-cell data integration using optimal transport.

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4. Prof. Ashok Singh

University of Nevada, USA



Abstract Title:

Bayes Estimation of Prevalence of AIH in females in the Las Vegas Metropolitan

Area