

The involvement of the Department of Statistics, Malaysia at

## THE INTERNATIONAL STATISTICAL INSTITUTE'S 'WORLD STATISTICS CONGRESS 2021 - The Hague'

Virtually Platform, 11-16 July 2021

VOLUME 1

### MEMORIES AT A GLANCE #ISIWSC2019

Still in our memory



### 62<sup>nd</sup> ISI World Statistics Congress 2019 (ISI WSC 2019)

18-23  
AUGUST  
2019

KUALA  
LUMPUR  
CONVENTION  
CENTRE  
(KLCC)

Around **2,500** delegates from **130** countries with more than **1,300** papers in various disciplines and statistical applications were presented and enthusiastically discussed during ISIWSC2019

HOSTED BY:



Malaysia feels honoured and grateful for the overwhelming participation and support from the global statistics community and appreciates the community's acknowledgment



### About #ISIWSC2021

#### WHERE?

The Hague,  
the  
Netherlands

#### HOW?

Virtually due to  
the COVID-19  
pandemic

#### WHY?

Exchanging  
scholarly views as  
well as latest  
statistical findings  
and developments

#### WHO?

Statistician and Data  
Scientists all around the  
world who are first-time  
participants, early  
career students and  
peers from developing  
countries

**63<sup>rd</sup> ISI WORLD STATISTICS CONGRESS 2021 - The Hague**  
Virtually 11<sup>th</sup> - 16<sup>th</sup> July 2021  
17:00 - 03:30 (Malaysia Time)

"Statistics and Data Science  
for a Better World"

Creating Networking among:

- i. Statisticians
- ii. Economists
- iii. Researchers
- iv. Data scientists
- v. Academia
- vi. Industry practitioners
- vii. Analysts
- viii. Policymakers



POPULATION & HOUSING  
**CENSUS  
MALAYSIA 2020**

YOUR DATA IS OUR FUTURE

#MyStatsDay | #MyCensus2020 | #LeaveNoOneBehind

**isi** 63<sup>rd</sup> WORLD STATISTICS CONGRESS **VIRTUAL 2021** The schedule below covers the confirmed LIVE parts of the programme.

**KICK-OFF EVENT**  
10 JULY 2021 (SATURDAY)  
ISI Young Statisticians' Event  
19:20 - 21:20 (MYT)  
12:20 - 14:20 (UK TIME/BST)

**OPENING DAY**  
11 JULY 2021 (SUNDAY)  
Opening Ceremony  
20:00 - 20:45 (MYT)  
13:00 - 13:45 (UK TIME/BST)  
Welcome Reception - Meet Your Peers  
20:45 - 22:00 (MYT)  
13:45 - 15:00 (UK TIME/BST)

**DAY THREE**  
14 JULY 2021 (WEDNESDAY)  
Parallel Invited Paper Sessions  
20:00 - 22:30 (MYT)  
13:00 - 15:30 (UK TIME/BST)  
ISI General Assembly  
22:30 - 23:30 (MYT)  
15:30 - 16:30 (UK TIME/BST)

**DAY ONE**  
12 JULY 2021 (MONDAY)  
Parallel Invited Paper Sessions  
20:00 - 22:30 (MYT)  
13:00 - 15:30 (UK TIME/BST)  
Plenary - International Prize in Statistics Lecture  
22:30 - 23:30 (MYT)  
15:30 - 16:30 (UK TIME/BST)

**DAY FOUR**  
15 JULY 2021 (THURSDAY)  
Plenary Session - President's Invited Speaker  
17:00 - 18:00 (MYT)  
10:00 - 11:00 (UK TIME/BST)  
Parallel Invited Paper Sessions  
18:00 - 19:30 (MYT)  
11:00 - 12:30 (UK TIME/BST)  
IPUMS International Workshop  
21:30 - 23:00 (MYT)  
14:30 - 16:00 (UK TIME/BST)  
ISI Author Workshop  
00:00 - 01:00 (MYT)  
17:00 - 18:00 (UK TIME/BST)  
Parallel Invited Paper Sessions  
01:00 - 03:30 (MYT)  
18:00 - 20:30 (UK TIME/BST)

**DAY TWO**  
13 JULY 2021 (TUESDAY)  
Parallel Invited Paper Sessions  
17:00 - 19:30 (MYT)  
10:00 - 12:30 (UK TIME/BST)  
Eri Workshop  
21:00 - 22:30 (MYT)  
14:00 - 15:30 (UK TIME/BST)  
ISI Committee for Women in Statistics  
Networking Event  
23:00 - 00:30 (MYT)  
16:00 - 17:30 (UK TIME/BST)  
Parallel Invited Paper Sessions  
01:00 - 03:30 (MYT)  
18:00 - 20:30 (UK TIME/BST)

**DAY FIVE**  
16 JULY 2021 (FRIDAY)  
Parallel Invited Paper Sessions  
20:00 - 22:30 (MYT)  
13:00 - 15:30 (UK TIME/BST)  
Closing Ceremony  
23:00 - 23:45 (MYT)  
16:00 - 16:45 (UK TIME/BST)

StatsMalaysia  
www.dosm.gov.my

## Developed with wide variety of scientific programmes



**Invited Paper Sessions (IPS)**



**Short Courses**



**Contributed Paper/Poster Sessions (CPS)**



**Special Invited Paper Sessions (SIPS)**



**Plenary Talk**



**Satellite meetings**



**The sponsor's Workshop**



**Various special events**

## DOSM Commitments at #ISIWSC2021

Welcomes and supports this extraordinary knowledge-sharing platform to emphasise the importance of statistics in imparting knowledge and evidence-based decision making.

Encourage DOSM's active involvement in scientific research and share the latest statistical findings and developments with international peers.

Creating strong networking among the statisticians and data scientists from all over the world.



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# DOSM delegates, Speakers and Organiser

About **40 Malaysian delegates** participated in the Congress as participants, speakers and session organisers, led by Dr. Mohd Uzir Mahidin, Chief Statistician Malaysia.

Aims to experience variety of **inspiring lessons** and **cultural diversity** of the other countries



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Virtually 11<sup>th</sup> - 16<sup>th</sup> July 2021  
20:00 - 02:30 (Malaysia Time)

**“Statistics and Data Science for a Better World”**

**SCIENTIFIC PROGRAMME**

- 1 Invited Paper Sessions (IPS)
- 2 Contributed Paper Sessions (CPS) and Posters

Malaysia through the Department of Statistics Malaysia (DOSM) will participate and share its best practices and statistical developments through the presentation of papers and posters at this prestigious congress which will be led by YBhg. Dato' Sri Dr. Mohd Uzir Mahidin, Chief Statistician Malaysia

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## Invited Paper Session (IPS)

IPS Sessions organised by the Department of Statistics, Malaysia



| 15 JULY 2021  | 16 JULY 2021  | 16 JULY 2021  |
|---|---|---|
| <b>The Mirror has Two Faces: An Analysis of Asymmetries in Official International Merchandise Trade Statistics</b>  | <b>Capturing Informal and Micro Economy in the Era of Digital</b>   | <b>Data Science in Estimating Informal Sector and Gig Workers</b>                             |
| <b>Organiser</b><br>Ms. Wan Siti Zaleha Wan Zakaria   | <b>Organiser</b><br>Ms. Mazreha Ya'akub   | <b>Organiser</b><br>Ms. Yong Joo Chiet  |
| <b>Speakers</b><br>Ms. Siti Haslinda Mohd Din<br>Mr. Maridie Muryawan<br>Mr. Fathur Rachman<br>Ms. Janine De Vera<br>Mr. Ulrich Eidmann<br>Mr. Ronald Jansen (Discussant) | <b>Speakers</b><br>Mr. Ahmad Najmi Ariffin<br>Ms. Aidawani Abdullah<br>Ms. Noradilah Adnan<br>Ms. Kumutha Shanmugam | <b>Speakers</b><br>Mr. Jacques Charmes<br>Ms. Hawati Abdul Hamid<br>Mr. Jonathan Gessendorfer |

**Chair of the IPS Sessions**  
YBhg. Dato' Sri Dr. Mohd Uzir Mahidin  
Chief Statistician Malaysia

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**3** Invited Paper Sessions (IPS) involving **13** national and international speakers



# DOSM delegates, Speakers and Organiser (Cont.)



## Contributed Paper Session (CPS)



Let's join the CPS Session at the 63<sup>rd</sup> ISI WSC with Malaysia where 11 scientific papers will be presented, including posters depicting the latest developments and findings of DOSM.



**11 technical papers on Contributed Paper Sessions (CPS) / posters presented involving 11 DOSM officers**



## Contributed Paper Session (CPS)



Let's join the CPS Session at the 63<sup>rd</sup> ISI WSC with Malaysia where 11 scientific papers will be presented, including posters depicting the latest developments and findings of DOSM.





# Special Event: ISI Young Statisticians Event (Kick-off event)



## Highlight of the event?

Talk by the ISI  
President- **Elect**  
**Stephen Penneck**,  
Special speaker.

Sharing his experience  
and advices with the  
aspiring young  
statisticians, first time  
participants and early  
career students.

Conducted by ISI Young Statisticians' Committee

To promote collaboration and networking among the ISI's young statisticians and wider statistical community.

Agenda organised with breakout sessions to discuss and create networking among participants.

Consist of 8 different groups as follow:

Session  
**01** Data Science Group

Session  
**05** Computational  
Statistics Group

Session  
**02** Women in Statistics  
Group

Session  
**06** Statistics in  
Education Group

Session  
**03** Official Statistics  
Group

Session  
**07** Statistics in Biology  
Group

Session  
**04** Survey Statistics  
Group

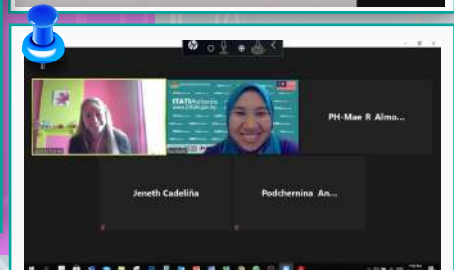
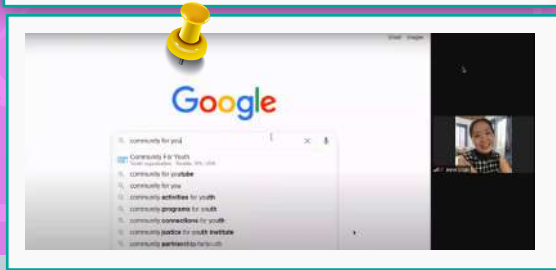
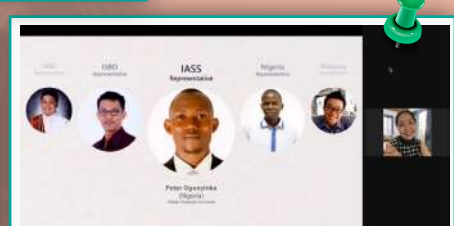
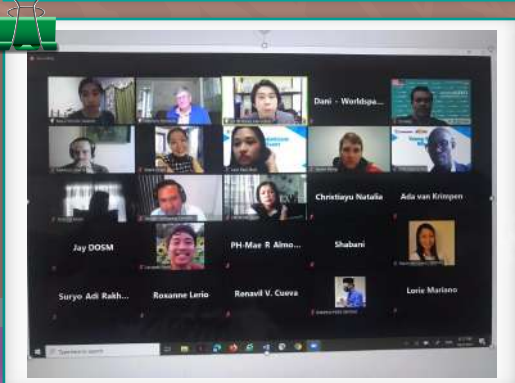
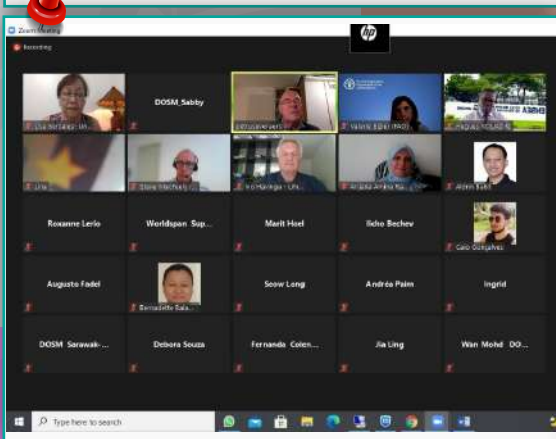
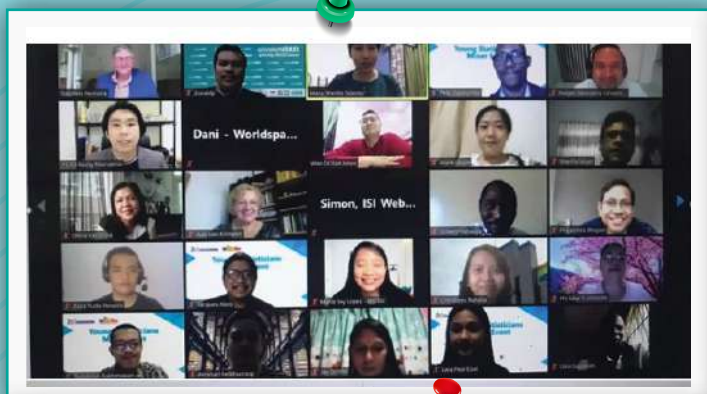
Session  
**08** Environment  
Statistics Group



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# Snapshot @ kick-off Event



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## Opening & Welcoming Reception

### Welcome!

It is my pleasure, honor and privilege to welcome you to the opening the ISI World Statistics Congress 2021!

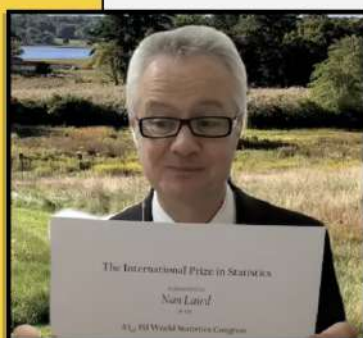


A brilliant opening ceremony, welcomed by **ISI President Mr John Bailer**

A welcoming message from **Her Majesty Queen Máxima of Netherlands**, the UN Secretary-General's Special Advocate for Inclusive Finance for Development and member of the Netherlands Committee for Enterprise



In addition, together with the International Monetary Fund we encouraged the reporting of gender-disaggregated data in the Financial Access Survey. Such granular data can look more closely at important issues and catalyze needed policy reform. Please do take the opportunity of the virtual conference to meet with friends and colleagues.



## Highlight - International Prize in Statistics:

- The prestigious award of the International Prize in Statistics awarded to **Professor Nan Laird**.
- Recognise for her achievement in bringing forward the methods that reflect a fundamental shift in statistical practice and has enriched the analysis of data collected over time in a host of scientific fields.



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A series of sharing the insight and experiences of the ISI's most enthusiastic members and delegates



Ms Ola Awad  
President of The Palestinian Central Bureau of Statistics



Reija Helenius  
ISI Council members



Mr. Shigeru Kawasaki  
Chair of the United Nations Statistical Commission (UNSC)



Mr John Bailer  
ISI President

## Reception Session

- Opening Ceremony continued with a series of entertaining and fun activities awaited fellow delegates in the Welcome Reception session.
- During the session, there were eight networking reception rooms where delegates were able to move from one room to another to meet their friends and make new acquaintance.
- The networking reception rooms were named as follows:

### Opening Ceremony



Start the WSC with our traditional Opening Ceremony & Welcome Reception. We will be welcomed by ISI President John Bailer. Special guests include the International Prize in Statistics winner Professor Nan Laird. Come watch our surprise entertainment.

| Chat  | Polls |
|---|-------|
| Hi, greetings from Indonesia!<br>Ayu Paramudita | 2     |
| Greetings from Columbia MO, USA,<br>Scott Helan | 2     |
| Hello ...Greetings from Malaysia                | 0     |

Networking Reception Room 1 -  
Data Science

Networking Reception Room 5 -  
Early Career Statisticians

Networking Reception Room 2 -  
First time attendees

Networking Reception Room 6 -  
Business and Industry Statistics

Networking Reception Room 3 -  
Academic and Education

Networking Reception Room 7 -  
Official Statistics

Networking Reception Room 4 -  
Women in Statistics - IYWSDS

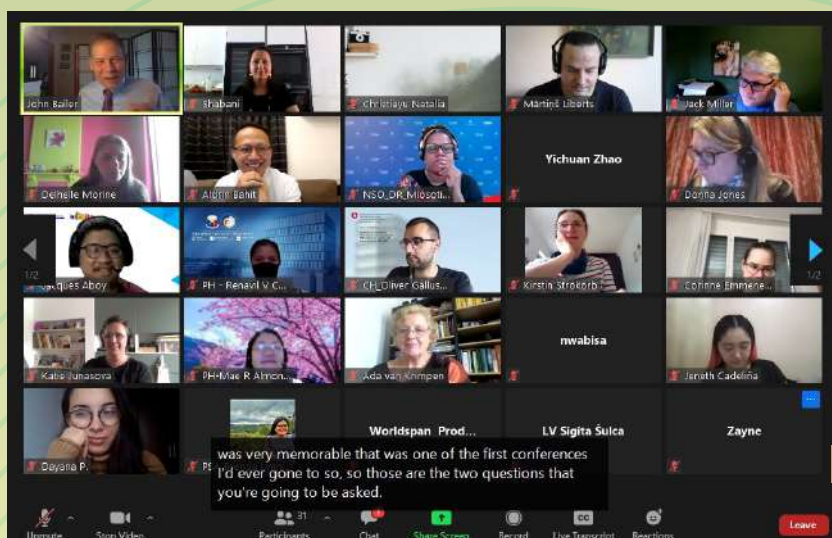
Networking Reception Room 8 -  
Professional and Personal Passions



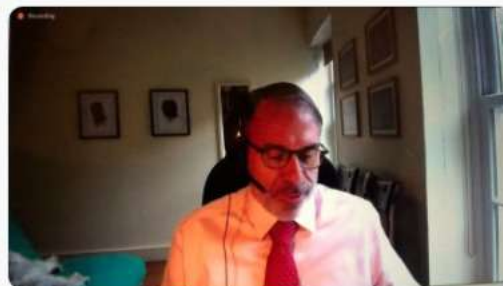
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# Snapshots @ Opening Ceremony & Welcome Reception



Dr. Uzir @Dr\_Uzir · Jul 12  
Day 2 @isi\_wsc\_2021 IPS 231 - Official Statistics in the Changing World of Data Science  
"We need new global data culture" ~ Mr. Stefan Schweinfest



Opening Ceremony

Statistical Science  
for a Better World



Opening Ceremony



Opening Ceremony



Opening Ceremony

SHARING STATE-OF-THE-ART  
DEVELOPMENTS



Opening Ceremony

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# Day One (12 July 2021)

Interesting and fun sessions of the first day of scientific sessions

## LIVE Session

- The Day Introduction 1
- Invited Paper Sessions (IPS)\_Live 15
- Special Invited Paper Session (SIPS)\_Live 3
- Plenary Talk 1

## NON-LIVE Session

- IPS Non-Live (60 minutes) 1
- Contributed Paper Sessions (CPS) Oral Presentation & Poster 8



## Highlight of the Day : Plenary Talk

Talk by the award winner, the 2021 International Prize in Statistics.

Recognition of her work on powerful methods that have made possible the analysis of complex longitudinal studies.

**Plenary talk on Contributions to Longitudinal Studies**  
"Remarkable experience to learn effective methods that enabled the analysis of complex longitudinal studies."



**Professor Laird**

### Short Bio:

- Professor Laird
- US biostatistician Harvey V. Fineberg Professor of Biostatistics (Emerita) at Harvard University
- Known for **Expectation-maximization algorithm, and DerSimonian-Laird estimator**

### Awards:

- (2021) International Prize in Statistics
- (2016) 25th Annual Distinguished Statistician Lecture from UCONN The American Statistical Association and Pfizer
- (2011) 25th Annual Lowell Reed Lecturer from the American Public Health Association
- (2011) Samuel S. Wilks Award from the American Statistical Association



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# DOSM Contributions



## 63<sup>rd</sup> ISI WORLD STATISTICS CONGRESS 2021 - The Hague

"Statistics and Data Science for a Better World"

Virtually 11<sup>th</sup> - 16<sup>th</sup> July 2021  
17:00 - 03:30 (Malaysia Time)

### Contributed Paper Session (CPS)

#### Simulation: Cut-off Sampling Method for Monthly Manufacturing Survey (MMS)

12<sup>th</sup> July 2021  
3.00 PM (MYT)

#### Abstract:

Cut-off sampling is a sampling approach that is most often applied to highly skewed populations, such as business establishments that differ considerably in employee size, gross revenues, sales value and output value. A Cut-off sampling approach was applied in MMS 2020, where industry at three (3) digit based on Malaysia Standard Industrial Classification 2008 (MSIC 2008) at state level were formed as a stratum. For each stratum, establishments were sub-stratum based on establishment size. Main sub-stratum (large establishments) are those at or above a cut-off value, 80% contribution of total sales in their stratum, will be included in the sample (take all). While establishments that fell below the cut-off value was categorized based on Small and Medium Enterprise (SME) definition to form a 2nd sub-stratum (medium establishment) and 3rd sub-stratum (small and micro establishment). A sample of establishment were drawn from these sub-stratum (take some). This paper aimed to demonstrate the simulation of the Cut-off sampling approach used in MMS 2020. Three (3) sets of samples of establishments were drawn from the Economic Census 2016 (Manufacturing Sector). Total sales value, output value and employee size were estimated using appropriate sampling weights. The discrepancy between the estimations and the Economic Census 2016 parameter was calculated. Results shows, for total sales value, output and employee size estimated, 90 per cent of the domain (stratum) has less than 20% difference from the population parameter. Therefore, this cut-off method is considerably reliable and suitable for executing this survey to ensure the representation of the study.



Authors: Mr. Mohammad Darahim Ibrahim (Speaker)  
Ms. Noor Masayu Mhd Khalili, Ms. Balkish Mahadir Naidu  
& Ms. Diyana Amalina Fadzil  
Methodology and Research Division



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### Contributed Paper Session (CPS)

#### An Overview of Gig Workers in Malaysia

12<sup>th</sup> July 2021  
3.00 PM (MYT)

#### Abstract:

This paper presents an overview of gig workers in Malaysia. The gig economy has always seen a steady growth trajectory and is becoming a prominent feature of the labour market in Malaysia. The World Bank claimed that the gig economy has been on the rise in Malaysia, making up more than 15 per cent of the total employment in 2017. The Employees Provident Fund (EPF) in August 2017 reported that the gig economy in Malaysia has grown by 31 per cent. The Department of Statistics estimated that there are 2.86 million potential gig workers in Malaysia, an estimation based on the total number of 'Own Account Worker' status of employment category (2018). Critics argue that the rapid rise of gig economy platforms reflects the exploitation of regulatory and legal loopholes and the imposition of one-sided flexibility on workers rather than superior business models. Notwithstanding the potential benefits, more often than not, jobs in the gig economy are structured to negatively impact workers (unpredictable scheduling, inconsistent earnings, and unreliable long-term employment prospects) and firms (unfair competition, lower productivity and absenteeism). In most instances, digital labour platform providers rely on a workforce of independent contractors, who work on their own and at their own risk, for low wages and without social security. Neither the platform providers nor their clients take on the role and responsibilities of an employer. Labour laws, worker protection, health and safety regulations, quality of work and social security contributions are the sole responsibility of independent contractors who are not entitled to any form of workers' protection common in other sectors. The clients of the platforms essentially gain access to an on-demand workforce, while the independent contractors who provide the labour are subject to precarious working conditions. While neither comprehensive nor exhaustive, there is an urgent need to establish a clear set of engagement standards where gig workers and employers may refer to, and a cost-effective and expeditious legal recourse in order to manage gig-economy related disputes more effectively.



Authors: Dr. Norshamshida Razak (Speaker)  
& Ms. Zuraini Abu Kassim  
Institute of Labour Market Information & Analysis (ILMIA) Division



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17:00 - 03:30 (Malaysia Time)

### Contributed Paper Session (CPS)

#### Measuring Spatial Distribution Of Education Inequality

12<sup>th</sup> July 2021  
3.00 PM (MYT)

#### Abstract:

Education inequality is where access to good education is unequally based on circumstances such as ethnic group, geographical location, income group or other factors. The objective of this paper is to compute indicators of education inequality in Malaysia using the Population and Housing Census data and list of schools under the Ministry of Education. In particular, the mean years of schooling and Gini coefficient of education attainment were calculated. The paper will also investigate the factors affecting the mean years of schooling, including its relationship with distance to the nearest high performing school through ordinary least squares regression and geographic weighted regression.

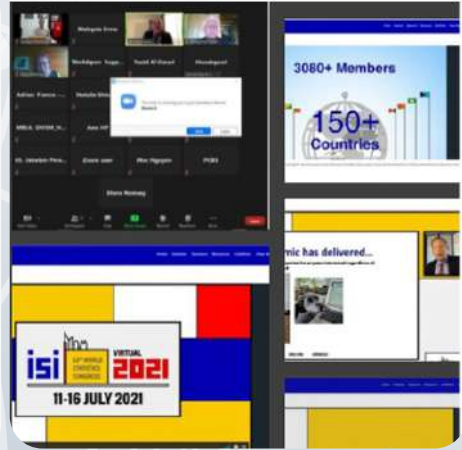
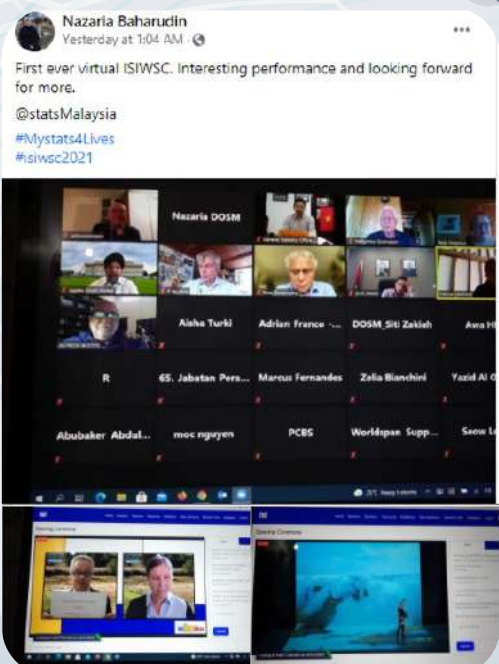


Speaker: Siti Nurliza Samsudin  
Malaysian Bureau of Labour Statistics (MBLS) Division



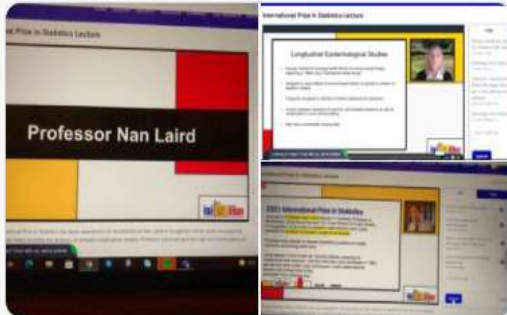
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**Dr. Uzir** @Dr\_Uzir · Jul 12  
Amazing talk by Professor Nan Laird, the winner of 2021 International Prize in Statistics @isi\_wsc\_2021. Great episodes of leading objective in recognition on powerful methods on the analysis of complex longitudinal studies that reflect a fundamental shift in statistical practice.



**Nazaria Baharudin** @NazariaBaharudin · 11h  
2nd Day ISIWSC: Congratulations to presenters from Malaysia.

**zezatyyy** @ezzatihamid · Jul 10  
"Statistics is actually a problem solving as it help in decision making and improving our society as well as an economic" Learning statistics is very fun! Kudos to ISI President-Elect Stephen Penneck for sharing the experiences.

**zezatyyy** @ezzatihamid · Jul 10  
"Statistics is actually a problem solving as it help in decision making and improving our society as well as an economic" Learning statistics is very fun! Kudos to ISI President-Elect Stephen Penneck for sharing the experiences.

**rosmaria** @rosmaria05 · 16h  
The main challenges to develop Small Island Developing States (SIDS) are not only remoteness, but also distance to financing sources & political centers, connectivity in transportation networks or through political & cultural linkages.

**zezatyyy** @ezzatihamid · Jul 10  
"Statistics is actually a problem solving as it help in decision making and improving our society as well as an economic" Learning statistics is very fun! Kudos to ISI President-Elect Stephen Penneck for sharing the experiences.

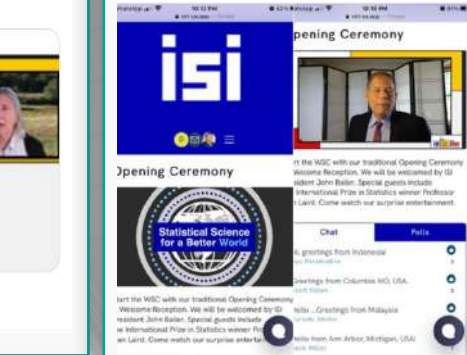
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**Anuar Azz** · 17h ·  
work on powerful to made possible the analysis of complex longitudinal studies @StatsMalaysia

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**Eddy Stats** · July 11 at 10:23 PM ·  
Let's begin with the opening ceremony of ISI WSC 2021...



**MullaniTaha** @MullaniTaha · Jul 10  
Great sharing session between young statisticians/researchers in the field of statistics. Learned so much things from this session especially from Stephen Penneck, the ISI President-Elect.



**MullaniTaha** @MullaniTaha · Jul 10  
As a young statisticians myself, I'm inspired by his key takeaway during the Q&A sessions. Looking forward for more upcoming events of #ISIWSC2021!

@StatsMalaysia  
#MyStats4Lives  
#ISIWSC2021

**Kon** @KonMeeHwa · 14h  
Prof. Nan Laird proposed a framework and implementation to loosen analytical constraints and revolutionized analysis of data over time, via extending to more complex settings on longitudinal clinical trials studies.



**Balkish Mahadir** · 15h ·  
Attending ISI World Statistics Congress: Soviet Statistics as a Historical Artefact. Great Knowledge Sharing. TQ.



**Balkish Mahadir** · 15h ·  
Attending ISI World Statistics Congress: Soviet Statistics as a Historical Artefact. Great Knowledge Sharing. TQ.

**zezatyyy** @ezzatihamid · Jul 10  
ISI Young Statisticians event is a great session to share thought and experience regarding statistics with statistical community and the breakout sessions help in having a great networking! (lets kit) @StatsMalaysia

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**MullaniTaha** @MullaniTaha · Jul 10  
Earlier I've attended the breakout session of Data Science Group. Among the topics that have been discussed were about what area of data science we want to focus and the challenges encountered in dealing with data science project. @StatsMalaysia

**MullaniTaha** @MullaniTaha · Jul 10  
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**DOSM congratulates and appreciates all speakers**  
for their fabulous efforts and willingness  
to **share variety of informative findings** that allowed delegates  
and participants **to acquire new methods and ideas**  
in improving the official statistics for decision-making process.

*Congratulations*



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