

# NEWSLETTER

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DOSM/BKS/6.2021/SERIES 22



nm 63rd WORLD STATISTICS CONGRESS

Day 4 (15 July 2021)

The involvement of the Department of Statistics, Malaysia at VIRTUAL

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

Virtually Platform, 11-16 July 2021

**VOLUME 4** 

# Scientific Programmes of the Day



Introduction of the Day-4\_Live

Invited Paper Sessions (IPS) Live

Special Invited Paper Session (SIPS)\_Live

Plenary Session: President's Invited Speaker

LIVE Workshops

IPS Non-Live

**Contributed Paper Sessions** (CPS) Oral Presentation







# **Plenary Session**



Discussions on the origami of data science, which include folding new methods and computational approaches into an

online atlas of cancer, a virtual Great Barrier Reef, an ethical social discourse platform and a personalised learning program President's Invited Speaker: The Origami of Data Science



Professor Kerrie Mengersen





- About origami, where by a flat square paper folded into a sculpture that promotes appreciation and imagination
- By using the same notion, we could apply the concept of origami in the context of data science, whereby a data analysis method or computational algorithm is folded into a software product which then serves for interpretation and implementation

# Short Bio: Ms Kerrie Mengersen

- Distinguished Professor in Statistics at the Queensland University of Technology in Brisbane, Australia
- Deputy Director of the Australian Research Council Centre of Excellence in Mathematical Frontiers
- Director of the QUT Centre for Data Science
- Elected Fellow of the Australian Academy of Science and the Australian Academy of Social Sciences
- A member of the Statistical Society of Australia and the IMS, ASA, RSS, ISBA and ISI









# **Live Workshops**

# WHO P

Staffs and experts from the IPUMS collection of FREE-USE data projects from the University of Minnesota in the United States

# WHAT

- IPUMS collection of databases at the University of Minnesota comprise the world's largest repository of census and survey microdata
- IPUMS standardises the data and harmonises variables to make research faster and simpler
- IPUMS adds value to the data by constructing family interrelationship (pointer) variables, creating corresponding geographic shapefiles, and building crosswalks between data sources



IPUMS Data Collection: How to Access & Use Free Census & Survey Microdata

# WHERE

For more information and to become an IPUMS user, visit https://www.ipums.org/



# HOW ?

- IPUMS integration and documentation makes it easy to study change, conduct comparative research, merge information across data types, and analyze individuals within family and community contexts. Data and services available free of charge
- The project manager share about How to become a user, how to navigate the basic features to find data, learn about the functions of the IPUMS data access system, and discover how to create our own custom microdata extract

# ISI Author Workshop



Editors-in-Chief from ISI Journals

- To share helpful tips and key takeaways on how to be selected for publishing in ISI journals
- To provide information that could assist authors in selecting a journal, writing article and navigating the peer review process
- The workshop is specially tailored for statisticians in their early career
- 15 minutes of Q&A session with the speakers

WHO













## DOSM Contributions

MISSED the IPS Non\_Live at the ISIWSC virtual platform? NO WORRIES!

Come and connect with us. Just scan the QR CODE and enjoy watching the brilliant presentation of DOSM at YouTube @StatsMalaysia



As IPS Non-Live Organiser and Speakers

The Mirror Has Two Faces: An Analysis of Asymmetries in Official International Merchandise Trade Statistics









63rd ISI WORLD STATISTICS CONGRESS 2021 - The Hague

"Statistics and Data Science for a Better World"

Invited Paper Session (IPS)

The Mirror has Two Faces: An Analysis of Asymmetries in Official International Merchandise Trade Statistics



Introduction:
International merchandise trade plays a vital role in economic development, linking producers and consumers in various countries into a global economic system. Mirror or asymmetrical analysis is one of the most used instruments for comparison data quality of external trade statistics between partner countries. Theoretically, the exports reported by an exporting country should mirror the imports reported by its reporting partner. In reality, however, due to the way that trade statistics are reported and recorded as well as many other methodological reasons, this is usually not the case even though currently many consider these discrepancies as norm rather than the exception, it is important to approach this scenario accordingly and develop strategies and methods for reconciliation exercises for bester analysis.

Virtually 11"- 16" July 2021 17:00 - 07:30 (Malaysia Time) 15" July 2021 3.00 PM (MYT)



Speaker: Ms. Siti Haslinda Mohd Din



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

When the mirror reflects

## SPEAKERS AND PAPERS OF THE SESSION:



- Reflecting Methodological Causes of Bilateral Asymmetry for the Forthcoming Revision of IMTS Concepts and Definition Speaker: Mr. Markie Muryawan (United Nations Statistics Division)
- Utilizing Microsoft Power BI to Identify Asymmetries in Intra-ASEAN International Merchandise Trade Statistics (IMTS): the Size and Potential Sources Speakers: Mr. M. Fathur Rachman, Ms. Lia Emalia & Ms. Maria F. Widowati (ASEANStats)
- Analysis of Asymmetries in Official International Merchandise Trade Statistics: A Case Study of Malaysia
  Speaker: Ms. Siti Haslinda Mohd Din (International Trade Statistics Division)

- Outlook on the Future Work to Address Bilateral Asymmetries in the Context of Microdata Exchange of Merchandise Trade Statistics Speaker: Mr. Ulrich Eidmann (Eurostat)
- Bilateral Trade Asymmetries in Asia Pacific Speaker: Ms. Janine De Vera (Asian Development Bank)

Discussant: Mr. Ronald Jansen Department of Economic and Social Affairs United Nations

two faces. Let's watch the intellectual discussion's recording in YouTube to unlock the mystery!









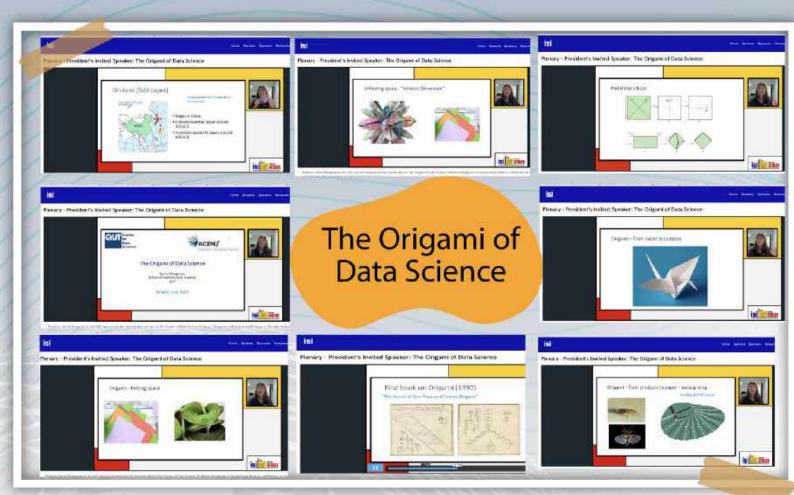


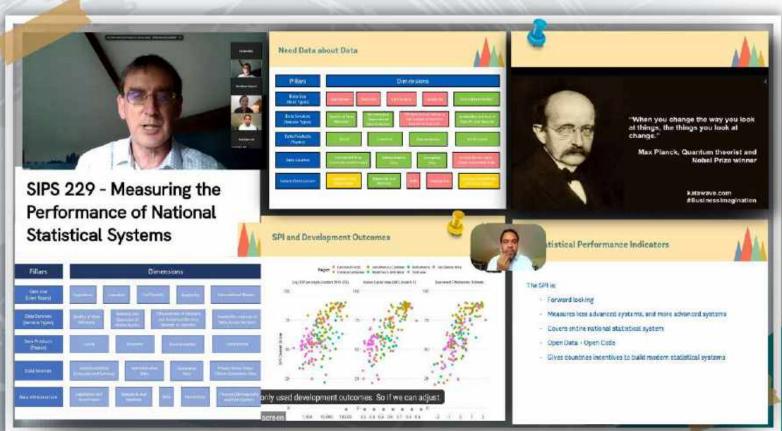






# SNAPSHOTS @Day-4













# SNAPSHOTS @Day-4



### Old issue - New Interest.

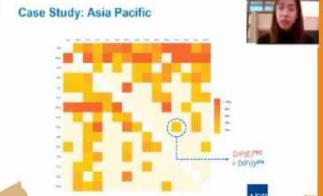
- Developing Trade in Value Added (TiVA) or Global Value Chains (GVCs) analytical data sets
- · Measuring commercial part of illicit financial flows through trade mis-invoicing
- The forthcoming revision of IMTS 2010 as endorsed by UN Statistical Commission in 2021
  - Opportunity to identify and amend relevant recommendations to redibitate all asymmetries and provide granular data to assist its analysis.



Utilizing Microsoft Power BI to Identify Asymmetries in Intra-ASEAN International Merchandise Trade Statistics (IMTS): the Size and Potential Sources

by

M. Fathur Rachman, Lia Emalia, Maria F. Widowati (ASEANstats)



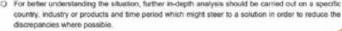
### IPS Non-Live 88 - The Mirror has Two Faces: An Analysis of Asymmetries in Official International Merchandise Trade Statistics

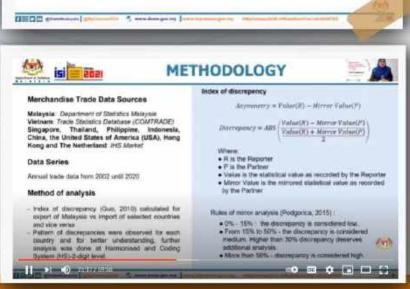


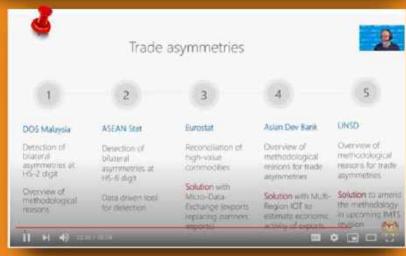
- and exports; differences in attribution of trade partners; differences in seconding re-exports; and et cetera.

  O Triangular trade was a common reason in the existing sterature, the result of analysis from entrepot
- countries does not show substantial differences from other countries except for MY imports versus SG exports.

  O For better understanding the situation, further in-depth analysis should be carried out on a specific















# **CPS Oral Presentations: Statistical Literacy**



# SOCIAL BUZZ @DOSM Day-4



Department of Statistics, Malaysia added 16 new photos from July 15 at 9:30 PM to the album:

> International Programmes 2021 36 - 68

INTERNATIONAL PROGRAMME (Day-4@ISIWSC2021)

The fourth day of # ISIWSC2021 was successfully concluded with various interesting topics on IPS LIVE as well as IPS Non-Live and CPS talks. 1st Non-Live with DOSM as an organiser was launched and was discussing the use of Asymmetric Analysis in Merchandise Trade Statistics. Both national and international speakers shared their experiences on this method of analysis which is used as an instrument to compare the quality of external trade statistical data between partner countries. Our gratitude towards UNSD, ASEANStats, ADB, Eurostat for your excellent presentations.

The highlight of the day is President's Invited Speaker: The Origami of Data Science session. Thank you Prof. Kerrie Mengerson for your magnificent explanation about origami in the context of data science where the computational algorithm approaches is folded into a software product that inspires interpretation and implementation. Thank you professor for the great knowledge-sharing platform.

Looking forward to more interesting sessions. Stay tuned for the #ISIWSC2021 !!

#ISIWSC2021

#NoOneLeftBehind

#StatsMalaysia

#MyStatsDay

#MyCensus2020

#MenghitungMalaysia

#DataAndaMasaDepanKita

#Covid19

#StayAtHome

#MyStats4Lives

#InternationalProgrammeDOSM







...

888

688

@StatsMalaysia

#MyStats4Lives #ISIWSC2021



Menarik keynote address by Prof Kerrie Mengerson ni. Entitle The Origami of Data Science,

Analogi yang menarik mengenai origami vs sains data.

Ongami : asalnya kertas, disenikan dengan lipatan menjadikan produk hiasan yang menarik and useful (sometimes) 👄

Meanwhile, data science, is an interdisciplinary field that uses scientific methods, processes, algorithms and systems to extract knowledge and insights from structured and unstructured data and apply knowledge and actionable insights from data across a broad range of application

Mungkin kalau bahasa mudah dia, kita "folded" (lipat) kan data+method+analyse+visualize problem in results into a software(product) yang memberi inspirasi pentafsiran data complex dalam bentuk yang lebih mudah difahami dan dihayati.

Nak bagi orang (read as client) mudah faham, and turn complex data into information, harus lah kita "mengotorkan tangan" demi hasil yang awesome bukan.

Kenapa origami di analogikan sama dengan DS7

Well apa yang saya taham prof ni explain,

"Imagination" & Creative thinking to turn complex dataset into something valuable, something different based on the objectives of the project

DS has it basic flow as shown in picture below.

Sama la macam buat origami, kena ada imagination dan creative art to fold the paper into

Harap faham je sudah la 👄

Muller/Taba @ Muller Claha - Ch

Semoga bermanfaat lah juga 😄

Origami sumbangan profesor dr nur arissa hannah (Hani Sani) 💗 sempena #isiwsc2021 Sekian #bilahudatulis

Tahun depan kita buat analogi lego n ...

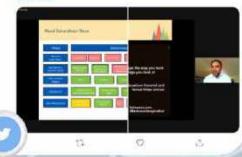


Data has no value if it is not being used? @StateMalayuu.













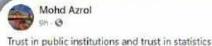






# SOCIAL BUZZ @DOSM Day-4





9H - 3

Trust is gaining more relevance in the statistical system of several countries; therefore, National Statistical Offices should prioritize the measurement of the interpersonal and institutional trust through regular statistical programs.

Moreover, due the context of Covid -19, data has revealed the importance of improving trust, particularly in the public health service. However, there are other fields where trust can also be measured to be improved, for instance, trust in government, public safety and justice institutions, quality of public services, political parties, civil service, banks, universities, family, and neighborhood.

Thus, it is necessary to improve the methodology on measuring trust in the public sector and to contribute to the comparison between trust in criminal institutions and perceptions.

#StatsMalaysia #MyStats4Lives #isiwsc2021

0 7 2 comments

Comment Comment

### Azreen @axreeen - 1h

This session will be an opportunity to draw inspirations and experiences from being part of the collaborative and to elucidate the learnings and initiatives to strengthen administrative systems.

### @StatsMalaysia

r Like

### #MyStats4Lives #isiwsc2021





### Iera\_Nzh @lera\_Nzh - 12m

Day 5: IPS 213 Session -Implications of the Digital Economy for Official

Great sharing from presenters on digitalization and measurement of inflation & the hedonic quality adjustment method in the compilation of price indexes.

### #MyStats4Lives

#Isiwsc2021

@StatsMalaysia

The perpencil method can supports effective use of big class for price

Effective measurement in the 21st century





A Share

### MulianiTaha @MulianiTaha - 6h

Without good statistics, countries are held back in responding to the COVID-19 pandemic and moving towards a better future, SPI address this motivation and build upon previous research to interpret and measure. statistical capacity, @StatsMalaysia

### #MyStats4Lives MISIWECZ021

MulianiTaha @MulianiTaha - 6h

Now watching the SIPS on Measuring the Performance of National Statistical Systems. This session introduce the Statistical Performance Indicators that was developed by the World Bank to monitor the statistical performance of

### #MvStats4Lives FISRWS-C2021



nabilanazwa @nabilanazwas - 44m

The COVID-19 virus may result in loss of parental care due to death, illness or separation thus this will placing children at heightened risk of violence. neglect or exploitation.

### @SpenMalayers #MyStats4Lives

#Isiwsc2021

0

Adibah Alsyah Abd Razak @cikadibahaisyah - 50m

100

Many of us know about origaml, In the same way, The origami of Data Science is a data analysis method or computational algorithm is folded into a software product that inspires interpretation and implementation. (PStatiMalaysia

**IDUNDataForum** 

#118/570

#MyStats4Lives #ISIW/9C2021

TI

(1)

### Azreen @axreeen - Th

Strengthening Administrative data: what countries have learned applied from the administrative data collaborative

### SECUREMALINOS. #MyStats4Lives #ISRASC2021

Mohammad Illyas @24Illyas - In

Survey sampling is often the only practical way to gather data on a large population. That's why survey sampling is so important.

#MyStats4Lives #ISRUSE2021

Afzainizam Abdullah @MohdAfzainiza15 - 7h

It is important to send your paper to the right journal for the reviews

#MyStats4Lives

#ISHWSC ROZ I





















# 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









