Workshop

Writing manuscripts for Official Statistics journals: Guidelines for practitioners and researchers:
8, 10 and 15 February 2022

ISI/ISR, IAOS/SJIAOS IASS/SS, StatisticsSweden/JOS, Statistics Canada/SMJ, Wiley, IOSPress

Outcomes of exercise A, Pieter Everaers/Peter de Jong

<u>Exercise A:</u> Analysis of the messages, the structure and the thought scheme of 2 existing manuscripts:

You can choose between 10 manuscripts. For two of these manuscripts you are invited to make a schematic overview of
- the type of manuscripts/the main audience
- the structure of the manuscript
- the conceptual model/ the theoretical background/ the theory it is building on
- the methodology used/ when relevant the data used
- the main message in maximum 10 lines/ the relevance / added value

The list with manuscripts to choose from can be found in the workshop agenda on the ISI Webinar website
https://www.isi-web.org/files/docs/webinars/2022-02-08_manuscripts-excercise-A.pdf

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Exercise A. This is how the list for the 10 manuscripts looks

- A proposal to enhance national capability to manage epidemics: Then critical importance of expert statistical input including official statistics.   N.I. Fisher and D.J. Trewin   2021/37/2, 465-482 https://content.iospress.com/download/statistical-journal-of-the-iaos/sji210808?id=statistical-journal-of-the-iaos%2Fsji210808
- Official statistics, big data and civil society. Introducing the approach of 'economic of convention' for understanding the rise of new data worlds and their implications. Rainer Diaz-Bone and Kenneth Horvath 2021/37/1 219-228 https://content.iospress.com/articles/statistical-journal-of-the-iaos/sji200733
- Unit Nonresponse and Weighting Adjustments: A Critical Review   J. Michael Brick 2013   https://sciendo.com/pdf/10.2478/jos-2013-0026
- Measuring the Sustainable Development Goal Indicators: An Unprecedented Statistical Challenge   Steve MacFeely 2020   https://sciendo.com/article/10.2478/jos-2020-0019
- Sample survey theory and methods: Past, present, and future directions J.N.K. Rao and Wayne A. Fuller   Dec 2017 https://www150.statcan.gc.ca/n1/pub/12-001-x/2017002/article/54888-eng.htm

- Social media as a data source for official statistics; the Dutch Consumer Confidence Index   Jan van den Brakel, Emily Söhler, Piet Dass and Bart Buelens Dec 2017 https://www150.statcan.gc.ca/n1/pub/12-001-x/2017002/article/54871-eng.htm
- Multi-source Statistics: Basic Situations and Methods.   de Waal, T., van Delden, A., and Scholtus, S   2020. 88: 203-228   https://onlinelibrary.wiley.com/doi/full/10.1111/insr.12352
- A Comparison of Methods for Poverty Estimation in Developing Countries   Das, S and Haslett, S.   2019. 87: 368-392   https://onlinelibrary.wiley.com/doi/10.1111/insr.12314
- Exploring developments in population size estimation   James Brown at al. 2020. No 82   http://isi-iass.org/home/wp-content/uploads/Survey_Statistician_2020_July_N82_03.pdf
- Machine Learning from the Perspective of Official Statistics Marco J. H. Puts and Piet J. H. Daas   2021 no 84   http://isi-iass.org/home/wp-content/uploads/Survey_Statistician_2021_July_N84_02.pdf

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Exercise A

In the second session, the results of this exercise will be discussed for example:
in terms of the title and the content, the usefulness of the background information, the type of manuscripts and the structure, the list of references and the message the manuscript aims to give, etc.

Outcomes of exercise A, Pieter Everaers/Peter de Jong

Fisher, Nicholas I. and Trewin, Dennis J. (2021)
A Proposal to Enhance National Capability to Manage Epidemics: The Critical Importance of Expert Statistical Input Including Official Statistics. *Statistical Journal of the IAOS*

The paper is policy oriented and addresses decision makers. The paper is tuned to this purpose.

- The title has a very clear message: the importance of statistical expertise for pandemic management.
- Introduction can be read as a management hand-out

Outcomes of exercise A, Pieter Everaers/Peter de Jong

Diaz-Bone, Rainer and Horvath, Kenneth (2021)
Official Statistics, Big Data and Civil Society. Introducing the Approach of "economics of Convention" for Understanding the Rise of New Data Worlds and Their Implications.
Statistical Journal of the IAOS

The paper is an outlier in the world of OS for a broad audience of producers of social statistics

- Lots of effort have been given to introduce the theory (history, relation to OS) to the audience.
- References provide further introduction of the theory.
- The (provocative) conclusion that the data world of OS will lose influence and has to find allies could have been given more prominence since paper is part of a discussion

Outcomes of exercise A, Pieter Everaers/Peter de Jong

J.Michael Brick, (2013)
Nonresponse and Weighting Adjustments: A Critical Review. *Journal of Official Statistics*

As a clear example of a 'Review' article it describes the current state for the topic.

- The '*A critical review*' in the title is rather ambitious and is not completely covered by the content.
- Especially the discussion lacks to be very concrete compared to the detailed review of earlier approaches.
- The Review part is rather complete and surely will satisfy the audience as giving a useful overview.
- The structure allows the reader to easily pick what he/she is interested in.
- The manuscript does not develop new concepts/approaches but will function very well as a framework for further references.

Outcomes of exercise A, Pieter Everaers/Peter de Jong

MacFeely, S.(2020)
Measuring the Sustainable Development Goal Indicators: An Unprecedented Statistical Challenge. *Journal of Official Statistics*

Policy paper providing background information on Global Indicator Framework written for Official Statisticians and a wide audience, raising awareness to the enormous work ahead and (potential) pitfalls.

- The title is (part of) the message.
- The article is a sequence of points of interest representing the different aspects of such a big enterprise.

Outcomes of exercise A, Pieter Everaers/Peter de Jong

J.N.K. Rao and Wayne A. Fuller, (2017)
Sample survey theory and methods: Past, present, and future. *Survey Methodology*

This Review paper follows a historical approach, easy to follow and for the readers to orientate in.

- The title fits completely with the content.
- This is a 'landmark' article aiming to generate reflections on the future state of the sampling theory and methods.

Outcomes of exercise A, Pieter Everaers/Peter de Jong

Van den Brakel, J., Söhler, E., Daas, P. and Buelens, B. (2017)
Social media as a data source for official statistics; the Dutch Consumer Confidence Index.
Survey Methodology

Expository paper on combining two data sources with the help of multivariate time series techniques.

- The title only mentions the use of social media, not the combination with the traditional survey. The timeseries technique is not mentioned, whereas it is an important part of the article.
- In the abstract this omission is corrected. It is mainly concerned with the techniques involved and does not give a preview of the (mixed) results.
- Both, title and abstract, are incomplete.

Outcomes of exercise A, Pieter Everaers/Peter de Jong

De Waal, T., van Delden, A., and Scholtus, S. (2020)
Multi-source Statistics: Basic Situations and Methods. *International Statistical Review*

Review article on a narrow subject. The paper is for all statisticians working with multi-source data, a rather broad audience.

- The first sections are used to make the term 'basic situation' from the title more precise. This is the essential part of the paper.
- When the basic situations (8) are described, the subsequent sections give the methods, literature and examples for each situation.
- The organization into situations make the article helpful and accessible.

Outcomes of exercise A, Pieter Everaers/Peter de Jong

Das, S., and Haslett, S. (2019)
A Comparison of Methods for Poverty Estimation in Developing Countries. *International Statistical Review*

The paper is rather technical and is meant for a specialist audience

- One of the main conclusions is given in the abstract. The abstract will read by a wider audience.
- The title does not cover the content of the paper. It mentions developing countries, whereas two of the three methods are applied only in Europe and the third mainly in developing countries.

James Brown, et.al; (2020)
Exploring developments in population size estimation. *The Survey Statistician*

The manuscript is a combination of a Review article and a Technical note. In fact it is a report of a workshop.

- Readers must be more advanced and expert in the domain.
- The title leaves very open what the content of the manuscript exactly is. Readers will only learn what it is about when reading the abstract and manuscript.
- The structure follows the examples as discussed in the workshop, and does not really give an easy to understand flow.

Outcomes of exercise A, Pieter Everaers/Peter de Jong

Puts, M. and Daas, P. (2021)
Machine Learning from the Perspective of Official Statistics. *The Survey Statistician*

Expository paper with a non-technical and general approach for non-technical Official Statisticians.

- The title covers almost completely the conceptual frame of the paper:
  Machine Learning from the perspective of the quality dimensions of the EES in OS.
- The idea behind the paper is simple and insightful. It is an approach on 'first principles' and there is no need for an extensive theoretical section.

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The results sheets per manuscript list are available in the workshop agenda on the ISI Webinar website

https://www.isi-web.org/files/docs/webinars/2022-02-08_manuscripts-excercise-A.pdf