Journal of Engineering Science and Technology • Volume 18, Issue 1, Pages 783 - 791 • February 2023

Document type
Article

Source type
Journal

ISSN
18234690

Publisher
Taylor's University

Original language
English

View less

BIG DATA FRAMEWORK TO EVALUATE AND ANALYSE NOTATIONAL COVID-19 IMMUNIZATION PROGRAMMED (NCIP) IN MALAYSIA: A COMPARATIVE STUDY

Ibrahim, Najhan M.[a] ; Ismail, Amelia R.[b]
Save all to author list

[a] Department of Information System, International Islamic University Malaysia, Jalan Gombak, Selangor, 53100, Malaysia
[b] Department of Computer Sciences, International Islamic University Malaysia, Jalan Gombak, Selangor, 53100, Malaysia

Full text options Export

Abstract
Author keywords
Reaxys Chemistry database information
Sustainable Development Goals 2023
SciVal Topics
Metrics

Abstract

Many governments around the world have launched their open government data (OGD) portal to improve the government's transparency by sharing their data with the public such as National Covid-19 Immunization Programmed (NCIP), which has been published at https://github.com/CITF-Malaysia/citf-public. However, increasing the number of datasets, data types, volume and complexity will be raised the integration issues. There-fore, it is essential to evaluate and analyses those huge amounts of these datasets. NCIP provides multiple data sources and datasets. These may raise the Big Data (BD) issues and pose various evaluation and analysis problems to produce valuable information. To generate meaningful linked data to support the purposes of this research study, the relationship between these disparate datasets needs to be identified and construct a comprehensive framework. In order to understand the

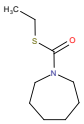
causes of OGD development of big data, this study involves a detailed examination and comparison of existing theories and actual approaches to handle public sector open data concerns. According to the review, the framework was dominantly adopted over architecture, infrastructures, theoretical and conceptual framework in previous research to examine the revolution of government public accessible data. According to the findings, most existing frameworks do not con-sider the demand for public open data in health such as NCPI. Previous re-search on OGD for health has a lesser number of advanced BD frameworks. In the public sector, there is still a lack of investment and use of Big Data. The findings will aid academics in doing empirical research on the revealed need, as well as offer decision-makers with a better understanding of how to leverage OGD adoption in health by taking relevant actions. © School of Engineering, Taylor's University.

Author keywords

Big data framework; National Covid-19 immunization programmed; Open government data

Reaxys Chemistry database information

Substances View all substances (1)



View details

Powered by Reaxys

Sustainable Development Goals 2023 New

SciVal Topics

Metrics

References (20) View in search results format >

All

Export Print E-mail Save to PDF Create bibliography

1 Graham, S., Milligan, I., Weingart, S.

Exploring big historical data: The historian's macroscope

(2015) *EXPLORING BIG HISTORICAL DATA: THE HISTORIAN'S MACROSCOPE*, pp. 1-308. Cited 55 times.
https://www.worldscientific.com/worldscibooks/10.1142/p981
ISBN: 978-178326610-4
doi: 10.1142/p981

View at Publisher

2 Ijab, M.T., Ahmad, A., Kadir, R.A., Hamid, S.

Towards big data quality framework for Malaysia's public sector open data initiative

(2017) *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 10645 LNCS, pp. 79-87. Cited 5 times.
http://springerlink.com/content/0302-9743/copyright/2005/
ISBN: 978-331970009-0
doi: 10.1007/978-3-319-70010-6_8

View at Publisher

3 Gyamfi, N.K., Appiah, P., Sarpong, K.A.-M., Gah, S.K., Katsriku, F., Abdulai, J.-D.
Big data analytics: Survey paper
(2017) *Conference Proceeding: Dialogue on Sustainability and Environmental Management*, pp. 101-112. Cited 4 times.
Accra, Ghana

4 Singh, R.K.
Taxonomy of big data analytics: Methodology, algorithms and tools
(2018) *International Journal on Future Revolution in Computer Science & Communication Engineering*, 4 (12), pp. 101-104. Cited 5 times.

5 Sun, A.Y., Scanlon, B.R.
How can Big Data and machine learning benefit environment and water management: A survey of methods, applications, and future directions
(2019) *Environmental Research Letters*, 14 (7), art. no. 073001. Cited 189 times.
https://iopscience.iop.org/article/10.1088/1748-9326/ab1b7d/pdf
doi: 10.1088/1748-9326/ab1b7d
View at Publisher

6 Rathore, M.M., Son, H., Ahmad, A., Paul, A., Jeon, G.
Real-Time Big Data Stream Processing Using GPU with Spark Over Hadoop Ecosystem
(2018) *International Journal of Parallel Programming*, 46 (3), pp. 630-646. Cited 60 times.
doi: 10.1007/s10766-017-0513-2
View at Publisher

7 Hamzah, M.A., Yatin, S.F.M., Yusof, M., Rashid, T.S.L.T.Z., Shuhaimi, H., Suleiman, A.B., Mansor, A.N., (...), Taib, K.M.
Big data implementation in Malaysian public sector: A review
(2020) *International Journal of Academic Research in Business & Social Sciences*, 10 (11), pp. 1461-1474. Cited 3 times.

8 Hainia, S.I., Ab. Rahima, N.Z., Mohd. Zainuddina, N.M., Ibrahima, R.
Factors influencing the adoption of open government data in the public sector: A systematic literature review
(2020) *International Journal on Advanced Science, Engineering and Information Technology*, 10 (2), pp. 611-617. Cited 9 times.
ijaseit.insightsociety.org
doi: 10.18517/ijaseit.10.2.9488
View at Publisher

9 Ijab, M.T., Surin, E.S.M., Nayan, N.M.
Conceptualizing big data quality framework from a systematic literature review perspective (Open Access)
(2019) *Malaysian Journal of Computer Science*, 2019 (SpecialIssue1), pp. 25-37. Cited 3 times.
https://ejournal.um.edu.my/0a4505c8-c7b1-41ef-a986-51ed53bc60ee
doi: 10.22452/mjcs.sp2019no1.2
View at Publisher

10 Bugbee, K., Ramachandran, R., Maskey, M., Barciauskas, A., Kaulfus, A., That, D.-H.T., Virts, K., (...), Lynnes, C.

Advancing Open Science Through Innovative Data System Solutions: The Joint ESA-NASA Multi-Mission Algorithm and Analysis Platform (MAAP)'s Data Ecosystem (Open Access)

(2020) *International Geoscience and Remote Sensing Symposium (IGARSS)*, art. no. 9323731, pp. 3097-3100. Cited 6 times.
ISBN: 978-172816374-1
doi: 10.1109/IGARSS39084.2020.9323731

View at Publisher

11 Carrillo-Larco, R.M., Castillo-Cara, M.

Using country-level variables to classify countries according to the number of confirmed COVID-19 cases: An unsupervised machine learning approach

(2020) *Wellcome Open Research*, 5, art. no. 56. Cited 50 times.
wellcomeopenresearch.org/
doi: 10.12688/wellcomeopenres.15819.3

View at Publisher

12 Pung, R., Chiew, C.J., Young, B.E., Chin, S., Chen, M.I.-C., Clapham, H.E., Cook, A.R., (...), Ang, L.W.

Investigation of three clusters of COVID-19 in Singapore: implications for surveillance and response measures (Open Access)

(2020) *The Lancet*, 395 (10229), pp. 1039-1046. Cited 441 times.
http://www.journals.elsevier.com/the-lancet/
doi: 10.1016/S0140-6736(20)30528-6

View at Publisher

13 Khurshid, M.M., Zakaria, N.H., Rashid, A., Ahmad, M.N., Arfeen, M.I., Shehzad, H.M.F.

Modeling of Open Government Data for Public Sector Organizations Using the Potential Theories and Determinants-A Systematic Review (Open Access)

(2020) *Informatics*, 7 (3), art. no. 7030024. Cited 19 times.
https://www.mdpi.com/2227-9709/7/3/24
doi: 10.3390/INFORMATICS7030024

View at Publisher

14 Mustapa, M.N., Hamid, S., Nasaruddin, F.H.M.

Exploring the issues of open government data implementation in malaysian public sectors

(2019) *International Journal on Advanced Science, Engineering and Information Technology*, 9 (4), pp. 1466-1473. Cited 9 times.
http://www.insightsociety.org/ojaseit/index.php/ijaseit/article/download/8850/2070
doi: 10.18517/ijaseit.9.4.8850

View at Publisher

15 Ibrahim, N.M., Hussin, A.A.A., Hassan, K.A., Breathnach, C.

Big Data Interoperability Framework for Malaysian Public Open Data

(2021) *Lecture Notes on Data Engineering and Communications Technologies*, 72, pp. 421-429. Cited 2 times.
springer.com/series/15362
doi: 10.1007/978-3-030-70713-2_39

View at Publisher

16 Joaheer, R., Nagowah, S.D.
A big data framework for diabetes in Mauritius (Open Access)

(2018) *2017 International Conference on Infocom Technologies and Unmanned Systems: Trends and Future Directions, ICTUS 2017*, 2018-January, pp. 126-132. Cited 4 times.
ISBN: 978-153860514-1
doi: 10.1109/ICTUS.2017.8285991

View at Publisher

17 Ariffin, A.S., Aziz, M.A.S.B.A.
Public servants' perception towards publishing quality and impactful open data to support open science initiatives in Malaysia
(2022) *Journal of Science, Technology and Innovation Policy*, 8 (1), pp. 44-57.

18 Dinesh, A.S., Mathur, V., Ansil, B.R., Chandru, V., Chellam, R., Vanak, A.T., Ramakrishnan, U., (...), Rajagopal, P.
Health Heatmap of India: An Open Data Platform (Open Access)

(2020) *Journal of the Indian Institute of Science*, 100 (4), pp. 701-716. Cited 5 times.
springer
doi: 10.1007/s41745-020-00196-z

View at Publisher

19 Jetzek, T., Avital, M., Bjørn-Andersen, N.
The sustainable value of open government data

(2019) *Journal of the Association for Information Systems*, 20 (6), pp. 702-734. Cited 38 times.
https://aisel.aisnet.org/cgi/viewcontent.cgi?article=1866&context=jais
doi: 10.17705/1jais.00549

View at Publisher

20 Khurshid, M.M., Zakaria, N.H., Arfeen, M.I., Rashid, A., Shehzad, H.M.F., Ahmad, M.N.
An Intention-Adoption Behavioral Model for Open Government Data in Pakistan's Public Sector Organizations–An Exploratory Study (Open Access)

(2020) *IFIP Advances in Information and Communication Technology*, 617, pp. 377-388. Cited 4 times.
http://www.springer.com/series/6102
ISBN: 978-303064848-0
doi: 10.1007/978-3-030-64849-7_34

View at Publisher

Ibrahim, N.M.; Department of Information System, International Islamic University Malaysia, Jalan Gombak, Selangor, Malaysia; email:najhan_ibrahim@iium.edu.my

About Scopus

What is Scopus

Content coverage

Scopus blog

Scopus API

Privacy matters

Language

日本語版を表示する

查看简体中文版本

查看繁體中文版本

Просмотр версии на русском языке

Customer Service

Help

Tutorials

Contact us