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Keywords: First keyword, Second keyword, Third keyword, Fourth keyword, etc.

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1. Introduction (11 PT)

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Literature review that has been done author used in the section "**Introduction**" to explain the difference of the manuscript with other papers, that it is innovative, it are used in the section "**Method**" to describe the step of research and used in the section "**Results and Discussion**" to support the analysis of the results [2]. If the manuscript was written really have high originality, which proposed a new method or algorithm, the additional section after the "**Introduction**" section and before the "**Method**" section can be added to explain briefly the theory and/or the proposed method/algorithm [4].

2. Theoretical Background and Hypothesis Development

The Theoretical Background and Hypothesis Development section serves to:

1. Provide the theoretical basis underlying the research.
2. Show the relationship between variables based on previous theories and research.
3. Explaining the logical rationale for testing the proposed hypotheses.
4. Developing a conceptual framework to be tested empirically.

In other words, this section answers the questions: "Why am I proposing these hypotheses, and what theories support them?"

This section is usually divided into two main subsections:

- A. Theoretical Background

1. Describe the main theories relevant to the research. Examples: Theory of Planned Behavior (TPB), Resource-Based View (RBV), Signaling Theory, etc.
 2. Define each research variable (e.g., customer satisfaction, work motivation, profitability, etc.).
 3. Summarize previous research findings related to each variable and their relationships.
 4. Identify research gaps or discrepancies in previous studies that motivate your new research.
- B. Hypothesis Development
1. Construct a logical argument linking the theory to the hypothesis.
 2. Each relationship between variables should be explained in a separate subsection.
 3. Use previous empirical evidence to strengthen the proposed relationship.
 4. End each subsection with an explicit hypothesis statement.

3. Method Details

Explaining the research chronologically, including the research design, research procedures (in the form of algorithms, Pseudocode, or other), how to test, and data acquisition [5]–[7]. The description of the course of research should be supported references, so the explanation can be accepted scientifically [2], [4]. Figures 1-2 and Table 1 are presented center, as shown below and cited in the manuscript [5], [8]–[13]. The Confirmatory Factor Analysis (CFA) test results for the internal factor variables are depicted in Figure 2(a), and the institutional capacity variables have been depicted in Figure 2(b).

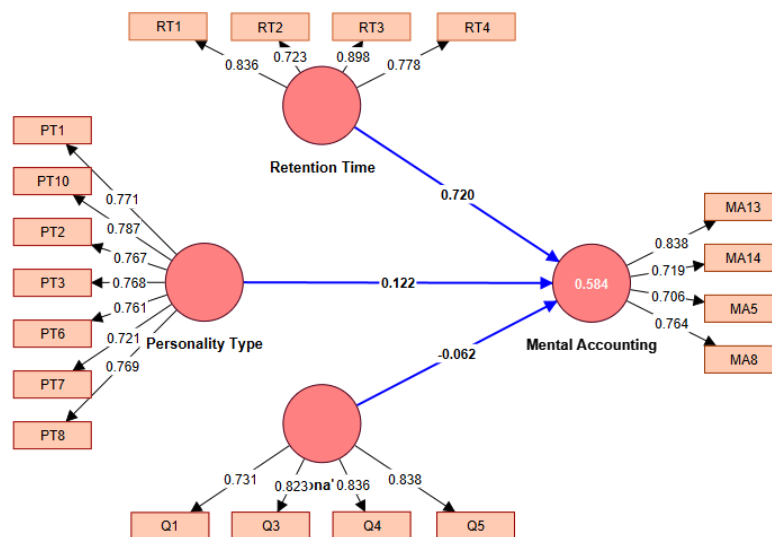


Fig. 1. Model Struktural Mental Accounting

Table 1. Internal Factor Variable Reliability Test

Variabel	λ_i	$\delta_i = 1 - \lambda_i^2$
X _{1.1}	0.633	0.367
X _{1.2}	0.539	0.461
X _{1.3}	0.651	0.349
X _{1.4}	0.543	0.457
X _{1.5}	0.530	0.470

For Figure 2, which consists of parts (a) and (b), follow the example below.

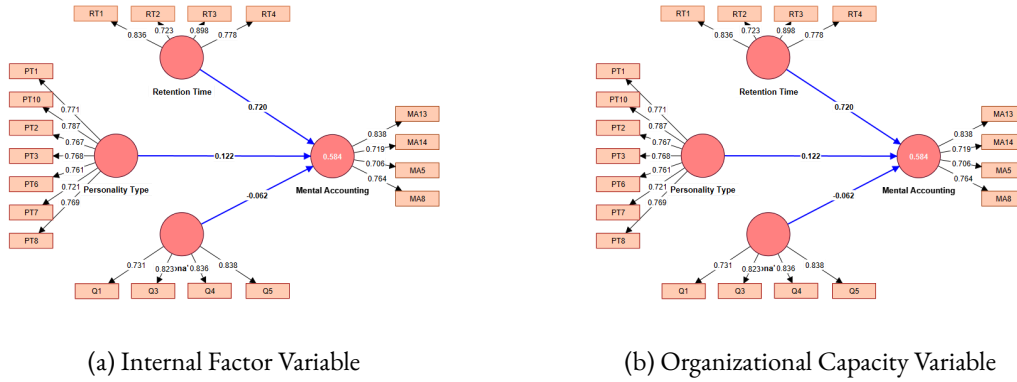


Fig. 2. Confirmatory Factor Analysis (a) Internal Factor Variable (b) Organizational Capacity Variable

4. Results and Discussion

In this section, it is explained the results of research and at the same time is given the comprehensive discussion. Results can be presented in figures, graphs, tables and others that make the reader understand easily [14], [15]. The discussion can be made in several sub-sections.

4.1. Sub section 1

Equations should be placed at the center of the line and provided consecutively with equation numbers in parentheses flushed to the right margin, as in (1). The use of **Microsoft Equation Editor** or **MathType** is preferred.

$$f(y; \mu) = \frac{e^{-\mu} \mu^y}{y!}; \text{ for } y = 0, 1, 2, \dots \text{ and } \mu > 0 \quad (1)$$

All symbols that have been used in the equations should be defined in the following text.

4.2. Sub section 2

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4.2.1. Subsub section 2

To rewrite the equation, please copy the sebum equation so that the calculation can beHow to update equation numbers, tables, and figures made automatically.

$$f(y; \mu) = \frac{e^{-\mu} \mu^y}{y!} \quad (2)$$

To update the number of equations, tables, and figures, please block the number then right-click on the number and select update filed.

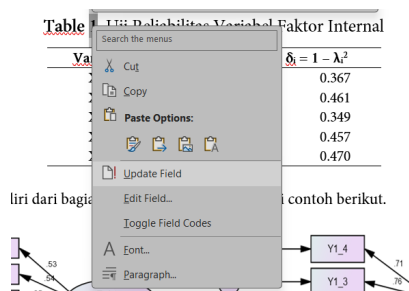


Fig. 3. How to update equation numbers, tables, and figures

4.2.2. Subsub section 2

Zzzzz

4.3. Sub section 3

xxx

5. Conclusion

Provide a statement that what is expected, as stated in the “**Introduction**”, section can ultimately result in “**Results and Discussion**”, section, so there is compatibility. Moreover, the prospects for the development of research results and the application of further studies can also be added to the next (based on the results and discussion).

Acknowledgments (if applicable) (11 PT)

This section should acknowledge individuals who provided personal assistance to the work but do not meet the criteria for authorship, detailing their contributions. It is imperative to obtain consent from all individuals listed in the acknowledgments.

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The main references are international journals and proceedings. All references should be to the most pertinent, **up-to-date sources**, and the **minimum number of references** should be **20** (for original research papers) and **40** (for review papers). References are written in IEEE style. You can access a more comprehensive guide at <http://ipmuonline.com/guide/refstyle.pdf>. Use a tool such as End Note, Mendeley, or Zotero for reference management and formatting; choose IEEE style. Please use a consistent format for references—see examples (9 pt):

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Example:

[1] J. W. Creswell and V. L. Plano, "Mixed methods research: Developments, trends, and future directions," *Journal of Mixed Methods Research*, vol. 10, no. 3, pp. 215–227, Jul. 2016.

b. Books

Basic Format:

[No] A. Author, Title of Book, xth ed. City of Publisher, Country: Publisher, Year.

Example:

[2] N. K. Malhotra, *Marketing Research: An Applied Orientation*, 7th ed. Upper Saddle River, NJ, USA: Pearson Education, 2019

c. Book Chapters

Basic Format:

[No] A. Author of chapter, "Title of chapter," in Title of Book, xth ed., A. Editor, Ed. City: Publisher, Year, ch. x, pp. xxx–xxx.

Example:

[3] D. J. Hand, "Statistics and data mining: Intersecting disciplines," in *The Oxford Handbook of Data Science*, D. Blei and T. Dietterich, Eds. Oxford, U.K.: Oxford Univ. Press, 2018, ch. 4, pp. 85–103.

d. Conference Proceedings

Basic Format:

[No] A. Author, "Title of paper," in Proceedings of the Name of the Conference, City, Country, Year, pp. xxx–xxx.

Example:

[4] S. P. Singh and M. Sharma, "Deep learning techniques for IoT security," in *Proc. 2021 Int. Conf. on Artificial Intelligence and Data Science (AIDS)*, Pune, India, 2021, pp. 210–216.

e. Theses and Dissertations

Basic Format:

[No] A. Author, "Title of thesis," Degree type thesis, Department, University, City, Country, Year.

Example:

[5] L. F. Rahman, "Modeling economic resilience in digital marketplaces," Ph.D. dissertation, Dept. of Economics, Univ. of Indonesia, Depok, Indonesia, 2023.

f. Reports

Basic Format:

[No] A. Author, "Title of report," Company/Organization, City, Country, Report number, Year.

Example:

[6] World Bank, "Digital economy report: The rise of data-driven innovation," World Bank Group, Washington, DC, Rep. No. WBG-2022-05, 2022.

g. Online Sources

Basic Format:

[No] A. Author (if available), "Title of document," Website Name, Date of publication. [Online]. Available: URL. [Accessed: Month, Day, Year].

Example:

[7] IEEE, "IEEE referencing style guide," IEEE, 2023. [Online]. Available: https://www.ieee.org/documents/ieee_style_guide.pdf. [Accessed: Oct. 31, 2025].

h. Software or Datasets

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[No] A. Author/Organization, Title of Software or Dataset, version (if applicable). Publisher or Repository, Year. [Online]. Available: URL.

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[8] The R Foundation, R: A Language and Environment for Statistical Computing, version 4.3.1. R Core Team, 2024. [Online]. Available: <https://www.r-project.org/>.

*In the reference list, however, list all the authors for up to six authors. Use *et al.* only if: 1) The names are not given and 2) List of authors more than 6. *Example:* J. D. Bellamy *et al.*, *Computer Telephony Integration*, New York: Wiley, 2010.

See the examples:

References

- [1] M. Sigala, A. Beer, L. Hodgson, and A. O'Connor, *Big Data for Measuring the Impact of Tourism Economic Development Programmes: A Process and Quality Criteria Framework for Using Big Data*. 2019.
- [2] G. Nguyen *et al.*, "Machine Learning and Deep Learning frameworks and libraries for large-scale data mining: a survey," *Artif. Intell. Rev.*, vol. 52, no. 1, pp. 77–124, 2019, doi: 10.1007/s10462-018-09679-z.

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- [3] C. Shorten and T. M. Khoshgoftaar, "A survey on Image Data Augmentation for Deep Learning," *J. Big Data*, vol. 6, no. 1, 2019, doi: 10.1186/s40537-019-0197-0.
- [4] R. Vinayakumar, M. Alazab, K. P. Soman, P. Poornachandran, A. Al-Nemrat, and S. Venkatraman, "Deep Learning Approach for Intelligent Intrusion Detection System," *IEEE Access*, vol. 7, pp. 41525–41550, 2019, doi: 10.1109/ACCESS.2019.2895334.
- [5] K. Sivaraman, R. M. V. Krishnan, B. Sundarraj, and S. Sri Gowthem, "Network failure detection and diagnosis by analyzing syslog and SNS data: Applying big data analysis to network operations," *Int. J. Innov. Technol. Explor. Eng.*, vol. 8, no. 9 Special Issue 3, pp. 883–887, 2019, doi: 10.35940/ijitee.I3187.0789S319.
- [6] A. D. Dwivedi, G. Srivastava, S. Dhar, and R. Singh, "A decentralized privacy-preserving healthcare blockchain for IoT," *Sensors (Switzerland)*, vol. 19, no. 2, pp. 1–17, 2019, doi: 10.3390/s19020326.
- [7] F. Al-Turjman, H. Zahmatkesh, and L. Mostarda, "Quantifying uncertainty in internet of medical things and big-data services using intelligence and deep learning," *IEEE Access*, vol. 7, pp. 115749–115759, 2019, doi: 10.1109/ACCESS.2019.2931637.
- [8] S. Kumar and M. Singh, "Big data analytics for healthcare industry: Impact, applications, and tools," *Big Data Min. Anal.*, vol. 2, no. 1, pp. 48–57, 2019, doi: 10.26599/BDMA.2018.9020031.
- [9] L. M. Ang, K. P. Seng, G. K. Ijmaru, and A. M. Zungeru, "Deployment of IoV for Smart Cities: Applications, Architecture, and Challenges," *IEEE Access*, vol. 7, pp. 6473–6492, 2019, doi: 10.1109/ACCESS.2018.2887076.
- [10] B. P. L. Lau *et al.*, "A survey of data fusion in smart city applications," *Inf. Fusion*, vol. 52, no. January, pp. 357–374, 2019, doi: 10.1016/j.inffus.2019.05.004.
- [11] Y. Wu *et al.*, "Large scale incremental learning," *Proc. IEEE Comput. Soc. Conf. Comput. Vis. Pattern Recognit.*, vol. 2019-June, pp. 374–382, 2019, doi: 10.1109/CVPR.2019.00046.
- [12] A. Mosavi, S. Shamshirband, E. Salwana, K. wing Chau, and J. H. M. Tah, "Prediction of multi-inputs bubble column reactor using a novel hybrid model of computational fluid dynamics and machine learning," *Eng. Appl. Comput. Fluid Mech.*, vol. 13, no. 1, pp. 482–492, 2019, doi: 10.1080/19942060.2019.1613448.
- [13] V. Palanisamy and R. Thirunavukarasu, "Implications of big data analytics in developing healthcare frameworks – A review," *J. King Saud Univ. - Comput. Inf. Sci.*, vol. 31, no. 4, pp. 415–425, 2019, doi: 10.1016/j.jksuci.2017.12.007.
- [14] J. Sadowski, "When data is capital: Datafication, accumulation, and extraction," *Big Data Soc.*, vol. 6, no. 1, pp. 1–12, 2019, doi: 10.1177/2053951718820549.
- [15] J. R. Saura, B. R. Herraiez, and A. Reyes-Menendez, "Comparing a traditional approach for financial brand communication analysis with a big data analytics technique," *IEEE Access*, vol. 7, pp. 37100–37108, 2019, doi: 10.1109/ACCESS.2019.2905301.
- [16] D. Nallaperuma *et al.*, "Online Incremental Machine Learning Platform for Big Data-Driven Smart Traffic Management," *IEEE Trans. Intell. Transp. Syst.*, vol. 20, no. 12, pp. 4679–4690, 2019, doi: 10.1109/TITS.2019.2924883.
- [17] S. Schulz, M. Becker, M. R. Groseclose, S. Schadt, and C. Hopf, "Advanced MALDI mass spectrometry imaging in pharmaceutical research and drug development," *Curr. Opin. Biotechnol.*, vol. 55, pp. 51–59, 2019, doi: 10.1016/j.copbio.2018.08.003.
- [18] C. Shang and F. You, "Data Analytics and Machine Learning for Smart Process Manufacturing: Recent Advances and Perspectives in the Big Data Era," *Engineering*, vol. 5, no. 6, pp. 1010–1016, 2019, doi: 10.1016/j.eng.2019.01.019.
- [19] Y. Yu, M. Li, L. Liu, Y. Li, and J. Wang, "Clinical big data and deep learning: Applications, challenges, and future outlooks," *Big Data Min. Anal.*, vol. 2, no. 4, pp. 288–305, 2019, doi: 10.26599/BDMA.2019.9020007.
- [20] M. Huang, W. Liu, T. Wang, H. Song, X. Li, and A. Liu, "A queuing delay utilization scheme for on-path service aggregation in services-oriented computing networks," *IEEE Access*, vol. 7, pp. 23816–23833, 2019, doi: 10.1109/ACCESS.2019.2899402.
- [21] G. Xu, Y. Shi, X. Sun, and W. Shen, "Internet of things in marine environment monitoring: A review," *Sensors (Switzerland)*, vol. 19, no. 7, pp. 1–21, 2019, doi: 10.3390/s19071711.
- [22] M. Aqib, R. Mehmood, A. Alzahrani, I. Katib, A. Albeshri, and S. M. Altowaijri, *Smarter traffic prediction using big data, in-memory computing, deep learning and gpus*, vol. 19, no. 9, 2019.
- [23] S. Leonelli and N. Tempini, *Data Journeys in the Sciences*. 2020.
- [24] N. Stylos and J. Zwiegelaar, *Big Data as a Game Changer: How Does It Shape Business Intelligence Within a Tourism and Hospitality Industry Context?* 2019.
- [25] Q. Song, H. Ge, J. Caverlee, and X. Hu, "Tensor completion algorithms in big data analytics," *arXiv*, vol. 13, no. 1, 2017.