



**EXPLORING JOURNALIST PERCEPTIONS OF ARTIFICIAL INTELLIGENCE
IN NEWS PRODUCTION: A STUDY OF INDONESIAN ONLINE NEWS MEDIA**

UNDERGRADUATE THESIS

**Submitted as one of the requirements to obtain
Sarjana Ilmu Komunikasi (S.I.Kom.)**

by

PRYANKA RAMADINI

009201900078

Supervised by

ACHMAD SUPARDI, S.IP., M.A., Ph.D.

School of Humanities
Communication Studies

CIKARANG

SEPTEMBER, 2023

TURNITIN RESULT

feedback studio

Pryanka RAMadini | Exploring Journalist Perceptions of Artificial Intelligence in News Production: A Study of Online News Media

?

Match Overview

4%

1

Kya Dewi Davina, Wahy...

Publication

1%

>

2

dSPACE.cuni.cz

Internet Source

<1%

>

3

etheses.whiterose.ac.uk

Internet Source

<1%

>

4

repository.unib.ac.id

Internet Source

<1%

>

5

www.iiste.org

Internet Source

<1%

>

6

Submitted to Staffords...

Student Paper

<1%

>

7

www.tandfonline.com

Internet Source

<1%

>

8

repository.president.ac...

Internet Source

<1%

>

9

colbournecollege.weeb...

Internet Source

<1%

>

10

Submitted to University...

Student Paper

<1%

>

11

openaccess.city.ac.uk

Internet Source

<1%

>

12

nrl.northumbria.ac.uk

Internet Source

<1%

>

greatly aided by the quick rise in processing power as well as specialized devices like GPUs and TPUs. GPUs (visuals Processing Units) are specialized electrical circuits mainly used for producing visuals and pictures on computer displays, according to an NVIDIA media article. According to Google's official website, TPUs (Tensor Processing Units) are specially designed ASICs (Application-Specific Integrated Circuits) created by Google expressly for speeding up machine learning workloads. They are excellent at parallel processing and can efficiently complete complex mathematical computations. They are designed to operate on tensors, multi-dimensional arrays often used in deep learning models, in an efficient manner.

These advancements speed up the training and inference of AI models, allowing for more complex and effective AI systems. Because it uses multilayered neural networks, deep learning, a branch of machine learning, has revolutionized the development of artificial intelligence. These algorithms have shown remarkable performance in image recognition, natural language processing, voice synthesis, and autonomous systems.

ARTIFICIAL INTELLIGENCE-BASED ANTI-PLAGIARISM CONTENT CHECK RESULT

*Conducting the AI-based Anti-Plagiarism content through <http://zerogpt.com> with the following result

Safari File Edit View History Bookmarks Window Help

zerogpt.com

Apple iCloud Yahoo Bing Wikipedia Facebook Twitter LinkedIn The Weather Channel Yelp TripAdvisor Google Yahoo

ZeroGPT - Accurate Chat GPT, GPT4 & AI Text Detector Tool

https://puis.president.ac.id/decrees/2023/2023-02-07_-_Peraturan_Rektor_Nomor_4_Tahu...

Presuniv Student Handbook | PUIS.20230922.140241

Your File Content is Human written

0% AI GPT*

CHAPTER I
INTRODUCTION
Background of Study
Artificial Intelligence has been experiencing rapid growth and advancement, with significant progress. From Indonesia cases that showed how AI startups and innovation hubs are driving AI research, development, and application. Like Zenius, an education technology company that leverages AI to enhance online learning experiences. They provide AI-powered adaptive learning platforms that personalize learning content. Also, as reported by Bayuni (2021), The industries in Indonesia are adopting AI technologies already. For instance, healthcare is leveraging AI for medical imaging analysis, disease diagnosis, and personalized treatments. The Indonesian government has launched initiatives to support AI development. The Ministry of Communication and Informatics' National AI Strategy intends to develop artificial intelligence research, enable the formation of qualified individuals, and promote collaboration among government agencies, enterprises, and academic institutions. According to a study conducted by the Stanford Institute for Human-Centered Artificial Intelligence (2021), tremendous progress in machine learning techniques has been made, accompanied by a huge rise in available data and better processing capacity. The explosion of digital data has given AI systems access to a tremendous quantity of information for learning, facilitating the availability of big data. Big data sets have enabled AI systems to train on various representative datasets, improving performance and accuracy (Mayer & Cukier, 2013). The development of AI has been greatly aided by the quick rise in processing power and specialized devices like GPUs and TPUs. According to an NVIDIA media article, GPUs (visual Processing Units) are specialized electrical circuits mainly used for producing visuals and pictures on computer displays. Tensor Processing Units (TPUs) are specialized ASICs (Application-Specific Integrated Circuits) developed by Google

Abstract

The rapid advancement of artificial intelligence (AI) has brought about substantial transformations, particularly within the online news media sector, revolutionizing news production, content development, and audience engagement processes. This qualitative study uses a phenomenological approach to explore "how do journalists interpret the perceived implications that are associated with the integration of artificial intelligence in news production?" Through in-depth interviews with informants including a Video Journalist, Chief Editor, News Writer, and Reporter, this research investigates the varied manifestations of AI across different online news media. This study highlights the Journalist perceptions from distinct roles AI assumes in diverse media. Online news media employ AI for event visualization and audio conversion, utilize AI for news writing, streamlining content generation, and linguistic richness. AI's application also initiates thematic concepts and enhances efficiency. The weaknesses of AI into news production include an inability to classify the ethical concerns, lack of depth in news writing and accuracy, a lack of data verification, grammatical and data errors from outdated data. Findings align with Role theory and Technology Acceptance Model (TAM), indicating that AI can coexist with journalists' technical roles and skills like video editing, statistical data-generation and news visualization although AI cannot fully replicate the nuanced expertise, ethical judgment, and contextual interpretation innate to human journalists that upholding critical thinking and ethical considerations intrinsic to the coverage.

Keywords: Artificial Intelligence, Journalist roles, News production, Role theory, TAM

Table of Content

PANEL OF EXAMINER APPROVAL.....	3
STATEMENT OF ORIGINALITY.....	4
SCIENTIFIC PUBLICATION APPROVAL FOR ACADEMIC INTEREST.....	5
ADVISOR'S APPROVAL FOR PUBLICATION.....	6
Acknowledgements.....	7
Table of Content.....	9
Abstract.....	11
INTRODUCTION.....	12
Background of Study.....	12
Research Question.....	23
Objectives of Study.....	23
Scope of Research.....	26
Limitation of Research.....	26
CHAPTER II.....	28
THEORETICAL REVIEW.....	28
2.1 Literature Review.....	28
1. Role Theory.....	28
2. Technology Acceptance Model.....	30
2.1.1 Exploring Journalist Perceptions of Artificial Intelligence.....	33
2.1.2 News Production of Online News Media.....	38
2.2 Conceptual Framework.....	50
2.2.1 Journalist performance, beliefs, biases and attitudes towards AI.....	50
2.2.2 Digital Transformation of Journalism.....	52
2.2.3 Artificial Intelligence and human Journalists.....	53
2.2.4 Journalists interpret the perceived implications and challenges that are associated with the integration of AI in news production.....	54
CHAPTER III.....	56
METHODOLOGY.....	56
3.1 Research Methodology.....	56
3.1.1 Research Approach.....	57
3.2 Data Collection Technique.....	60
3.2.1 Sampling Strategy.....	61
3.2.2 Informant Criteria.....	62
3.3 Data Analysis.....	66
3.3.1 Coding.....	66
3.4 Trustworthiness.....	69
3.5 Summary.....	70
CHAPTER IV.....	71
ANALYSIS.....	71
4.1 Journalism is About Fact and People.....	71
4.2 Artificial Intelligence on Journalist Works.....	73
4.2.1 AI and Journalism Product.....	74
4.2.2 Journalist is About Humanities Skill.....	76
4.3 Discussion and Conclusion.....	78

4.3.1 AI Impacts on Journalist Works.....	78
4.3.2 AI's Contribution for Journalist Work.....	79
4.3.3 AI's Limitation for Journalist Work.....	81
4.3.4 Journalist skill and AI accommodation.....	83
4.3.5 Application of Role Theory in Journalist Perceptions of Integrating AI.....	86
4.3.5 Application of TAM Theory in Journalist Perceptions of Integrating AI.....	88
APPENDIX.....	97
Letter of Permission for Data Collection.....	97
Letters of Consent.....	100
Interview Guideline.....	103
Documentation Photos.....	107
Interview Verbatim and Coding.....	108