CHAPTER I

INTRODUCTION

This chapter consists of general information about this study, which has seven

detailed parts of the study including the background, purpose, statement of

problems, scope, significance, clarification of terms, and organization of the paper.

1.1 Background of the Study

Scholars and academicians need a platform to publish their works in order to share

what they have found in their research journey and academic writing can be one of

the options. Academic writing gives them a space to evaluate on how they depict

knowledge, prove their understanding, and portraying the skills of thinking,

interpreting, and presenting (Irvin, 2010). There are many types of academic

writing, research article is one of them. It is important for university students,

scholars, and researchers to advance their knowledge and practice, and it can be

obtained through one of the important activities in academia, writing research

papers (Lubis & Kurniawan, 2020).

Particularly in Indonesia, the publication of research articles in reputable

journals has become a mandatory practice for academics, students, and faculty

members alike (Yadira, Zein, & Setia, 2022). The reputable journals can be filtered

by indexation. According to Balhara (2012), journal's quality can be reflected

through its indexation. In Indonesia, Science of Technology Index or Sinta is known

as a journal indexation portal managed by Ministry of Education, Culture, Research

and Technology. Sinta is also considered as a journal database which has six levels

to measure journal quality. Journals were accredited into six levels, Sinta 1 and 2

were considered to be the higher rank than Sinta 3 to 6. Sinta journals covered many

fields of research, including Computer Science which becomes the main area in this

study.

Writing research papers has structures to follow. In Computer Science

papers, the structures are similar to other field's publications, consisting of title,

abstract, introduction, background, related work, system model and problem

statement, methods, simulations, conclusions, acknowledgment, and references

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(Andonie & Dzitac, 2010). One of the important sections of research article is an

abstract. Based on Lubis and Kurniawan (2020), an abstract's quality determines

the quality of research paper's content as a whole. Abstract plays a critical role in

communicating the main points of the research. According to Cross and Oppenheim

(2006), readers can save their time by comprehending abstract because the well-

written one contains the ideas representation of the article.

Abstract writing has some frameworks proposed by some researchers, such

as Hyland (2000), Swales and Feak (2009), and Bhatia (1993). Five moves were

being proposed by Hyland (2000), which consisted of Move 1 – *Introduction*, Move

2 – Purpose, Move 3 – Method, Move 4 – Product and Move 5 – Conclusion. Using

Hyland (2000) framework, previous studies were conducted by the researchers and

they took a look in various disciplines (Gani, Kurniawan, Gunawan, & Lubis, 2021;

Juanda & Kurniawan, 2020; Sabila & Kurniawan, 2020; Ramadhini, Wahyuni,

Ramadhani, Kurniawan, Gunawan, & Muniroh, 2020).

From the previous studies, we can find the distinction between hard and soft

science fields' research article abstracts. Hyland (2000) stated that hard science

researchers had the tendency to create an abstract focusing on method description.

To divide the hard and soft science, Shapin (2022) stated that there have been minor

conflicts at the edges of its definition, but in general, the term is commonly

understood to categorize natural sciences as rigorous (with physics and

mathematics being the most precise), and social or human sciences (like sociology,

anthropology, and psychology) as less strict. Some consideration is also given to

disciplines that lean towards strictness, while others are thought to possess elements

of both characteristics.

Computer Science is considered as hard science since it involves scientific

method and emphasizes on proofs (Helmenstine, 2019). Understanding the

rhetorical structure of abstracts in Computer Science research articles can provide

insights into how authors construct their arguments and persuade their audience.

Despite that, the research about rhetorical structure in Computer Science field was

considered rare. There was one previous study written by Nurhayati, Fadilah, and

Habibah (2022) which researched about two Sinta-indexed Computer Science

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journals. However, the samples were limited to only 30 abstracts with index Sinta

1 and 2, also the chosen published years were in the year of 2021-2022.

Thus, this study examines Sinta-indexed Computer Science journals'

abstracts using Hyland's (2000) model. The aim of this study is to identify rhetorical

moves and linguistic features of the abstracts. Linguistic features such as voice and

tenses are analyzed to show the linguistic realizations in Computer Science journals.

This study uses more samples and is expected to help future researchers, scholars,

and academicians to implement the main used structures of Computer Science

journals' abstracts.

1.2 Purpose of the Study

This undergraduate thesis aims to conduct a rhetorical move analysis of Computer

Science research article abstracts in SINTA-indexed journals. The study will

identify and analyze the rhetorical moves used by authors in their abstracts to

understand how they construct their arguments and communicate their research.

1.3 Statement of Problems

The research questions for this thesis are:

1. What are the rhetorical moves used by authors in the abstracts of

Computer Science research articles in Sinta-indexed journals?

2. How are the rhetorical moves realized in research articles abstracts from

Sinta 1 to 6?

3. What are linguistic features used in Sinta-indexed Computer Science

research articles abstracts?

1.4 Scope of the Study

This study focuses on investigating the research article abstracts in Sinta-indexed

Computer Science journals. From Sinta 1 to 6, the writer analyzed the rhetorical

moves and linguistic features of abstracts in each level.

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1.5 Significance of the Study

This study aims to contribute to the understanding of how authors construct their Computer Science research article abstracts in well-structured manner, and how this can be useful for researchers, editors, and other stakeholders in the field. The study will also demonstrate the feasibility of using rhetorical move analysis as a tool for analyzing research article abstracts in Computer Science and other fields so researchers can study this field too.

1.6 Clarification of Terms

1.6.1 Move analysis

Move analysis is defined as a textual approach used to examine the rhetorical structure and organization such as moves and steps in various textual genres (Swales, 1990, 2004).

1.6.2 Move

Move is a rhetorical unit with communicative function and has a contribution to the communicative intent of the written text or spoken form (Swales, 2004 and Pho, 2008).

1.6.3 Step

Step is a subordinate component within moves that fulfil the communicative function of the move they belong to (Swales, 1990).

1.6.4 Linguistic features

In Yun Li (2011), inspired by Santos (1996), the linguistic features can be the characteristics at the macro-level of textual organization and the features of individual sentences at the micro-level of textual analysis.

1.6.5 Tenses

Linguists describe tense meanings using the timeline of linguistic act which divided into three parts: past, present, and future (Michaelis, 2021).

1.6.6 Voice

According to B. A. Ilish (1968), the voice in sentence conveys both the nature of relationship between the subject and the predicate, also the attitude of the action towards the object existed.

1.7 Organization of Paper

The thesis is divided into five main chapters which will organize the whole ideas:

1) Introduction

The first chapter will provide an overview of the study's background and objectives, scope and significance, research question, definition of key terms, and organization of paper.

2) Literature Review

The second chapter will review relevant literatures on rhetorical move analysis, Computer Science research article abstracts, and previous studies of this topic.

3) Research Methodology

The third chapter will describe the methodology used in the study, including the sample selection, data collection, and analysis procedures.

4) Findings and Discussion

The fourth chapter will present the findings of the study and further discussion of the results.

5) Conclusion and Suggestion

The last chapter will consist of conclusions of the current research and suggestions for future research.