WORD-FORMATION PROCESSES IN *ENGINEERING AND TECHNOLOGY ONLINE MAGAZINE*

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Abstract

Word as a part of language has important rule in forming a language. There are millions words now used by people. The word can be constructed since it has a process in formed. To understand how the words formed in a language, we learn about word – formation. The aims of this study are to describe the word formation process and to classify the processes of word formation. To support the writer analysis, the writer employs morphologycal approach.In this thesis, the writer usesalibrary research to find any information related to this research. Furthermore, descriptive qualitative method was utilized in analyzing the data. The main data were taken from the word of the dialogue in that magazine. As result of the analysis, the writerfinds thatthe word formation process in E&T Magazine september 2015 are*Coinage, Initialization and Acronyms, Compounding And Clipping*. It can give information about word formation, and understand what the meaning of word itself, to know what they mean by answering in the question in that way.

Key words: Word Formation,Magazine,Morphology.

INTRODUCTION

Communication is an important activity in human's life. Everytime and everywhere people establish it to get their needs. In this case, they use language as a medium of communication(Schrape, 2018). Based on (Putri & Sari, 2020), "language is many things a system of communication, a medium for thought, a vehicle for literary expression, a social institution, a matter for political controversy, a catalist for nation building". So, language is the important aspect in the life of all beings, we use language to communicate with other, to express their feelings (Suprayogi & Eko, 2020). In addition, language can be used both written and spoken form. We can find written language in form of words, vocabulary and others, and we can find spoken language such utterances. In written language, the people only undertsand the common words which usually found in human's life, but they don't know the form of word(Mandasari, n.d.).

Word as a part of language has important rule in forming a language. There are millions words now used by people. The word can be constructed since it has a process in formed. To understand how the words formed in a language, we learn about word - formation. Word- formation is the part of Morphology. According to (Roger S. Pressman, 2012), "Morphology is the study of word structure". Structure of word occurred to change the part of word and it can be found in word formation. Word formation is the process of building new words by means of existing elements of language according to certain patterns and rules(Sinaga & Oktaviani, 2020),(Sinaga & Oktaviani, 2020).

When we discuss word-formation in general it means that the process of forming new words that have a meaning that is formed either from a single word or group of words, why

the word-formation, because it has become an important discussion, especially by prospective language teachers. This is because the importance of knowing the meaning of a word and how it was formed. According (Gazali & Yusmaita, 2018) that "word formation is how words are formed (Process of Word Formation) from the pattern of the word, from which the word was formed, how it can be created or otherwise to be a word that has meaning". So that way word formation is very important to discus in our daily life to know the word formed and the meaning of word (Gunawan D, 2020),(Sari, 2018).

E&T magazine is one of magazine produced in United Kingdom that already has got branch in many countries and used English (Liu et al., 2020),(Jobli et al., 2011). However, the writer concludes that *E&T magazine* is one of the famous magazine. It was published on April 2008 by the institution of Engineering and Technology as a new magazine. *E&T magazine* got various awards that make more well-known in the world (Sedyastuti et al., 2021). It can be proved by becoming the top selling news these decades now. In addition, "E&T magazine has 1250 like to improve this magazine, which is the E&T Magazine is one of publishing that has achievement award-winning monthly magazine and associated website for professional engineers, with a circulation of approximately 150,000".

The writer is interested in E&T Magazine because it is the popular Magazine and one of important media in our daily life(Pustika, 2018). It is also because electronic article learn about trend exist in the world and our society, and development technology(Adiyanto & Febrianto, 2020). There is high correlation between word formation and electronic article in E&T magazine. It is said so since the writer wants to find the types of word formation of electronic article in E&T magazine and giving the information about word formation process used in E&T to the reader(Riskiono et al., 2021).

LITERATURE REVIEW

Previous Research

The function of previous study is to avoid plagiarism. The writer uses the previous study from Chandra(2006) entitled *"*The Word Formation ProcessesOf Computer Terms InA Pc User Magazine 2006". She used theory of George Yuleon herresearch;she also collected data and analzed data as her research method. She chose qualitative methodologyas her research method and the data collected are in words, sentences or pictures (Sedyastuti et al., 2021),(van Eijck, Michiel; Hsu, Pei-Ling; Roth, 2009). After analyzing the word formation processes of computer terms and the most frequent word formation processes of those terms, the writer found there are 202computer terms in PC User magazine February 2006 edition and 7 word formationprocesses that form computer terms, namely coinage, compounding, blending,compounding, conversion, acronym, and derivation. The writer divided theanalysis into two; single process which consists of coinage, borrowing,compounding, blending, clipping, backformation, conversion, acronym andderivation, and multiple processes which are combination of two or moreprocesses (Adiyanto & Febrianto, 2020),(Febrian & Vinahapsari, 2020). The findings show that the number of computer terms which are formed by multiple processes (46.03%) is almost half of the whole data. It indicates that although there are lots of computer terms that are formed by oneprocess (53.9%), many computer terms are also formed by more than one process.Because of the need of naming and describing the new computer

technology,people continue to process the existence computer terms to become new computerterms (Sulistiani et al., 2019),(Adiyanto & Febrianto, 2020).

Morphology

In analyzing linguistic field, we need to use an approach. Therefore, the writer to choose morphological approach. The approach is one way to discover the answer of problem formulation in this research. Accordiong to (Roger S. Pressman, 2012), Morphology is the study of word structure. It means that how form of word (theprocess of word formation) from pattern word that have a sense. In linguistics morphologyrefers to the mental system involved in word formation or to the branchof linguistics that deals with words, their internal structure, and howthey are formed(Ivana & Suprayogi, 2020),(Ayu, 2019),(Mandasari & Oktaviani, 2018). So in this sense, morphology can be considered as the oldest and youngest in grammar because several changes in term of morphology.

Morphemes

The definition is the smallest linguistic pieces with a gram-matical function. This definition is not meant to include all morphemes,but it is the usual one and a good starting point (Liu et al., 2020). A morpheme may consistof a word, such as handor a meaningful piece of a word, such as the –edof lookedthat cannot be divided into smaller meaningful parts. We can break it into threemorphemes: re-,consider and -ation. Consideris called the stem. A stem isa base morpheme to which another morphological piece is attached. Thestem can be simple, made up of only one part, or complex, itself made upof more than one piece. Here it is best to consider considera simple stem.Although it consists historically of more than one part, most present-day speakers would treat it as an unanalyzable form. We could also callconsiderthe root. A rootis like a stem in constituting the core of the word to whichother pieces attach, but the term refers only to morphologically simpleunits (Booch et al., 1998),(Tuhuteru & Iriani, 2018). For example, disagreeis the stem of disagreement, because it is the baseto which -mentattaches, but agreeis the roo. Returning now to reconsideration, re-and –ationare both affixes, whichmeans that they are attached to the stem. Affixes like re- that go beforethe stem are prefixes, and those like -ation that go after are suffixes

Word Formation

According to (van Eijck, Michiel; Hsu, Pei-Ling; Roth, 2009),(Hamdani et al., 2018)"Word is not the abstract vocabulary item with a common core of meaning".Word to refer a particular physical realization of that lexeme in speech or writing, it called as word form. The Word-formation Processes are the linguistic processes of creating newwords or terms from the old words to the new uses for example, the word labis actually derived from the old word laboratory and then becomes a newuses tab after undergoing the process of clipping. The word-formationprocesses, according to Yule consist ofcoinage, borrowing, compounding, blending, clipping, back-formation,acronyms, multiple processes, prefixes and suffixes(Pohan et al., 2019),(Herison et al., 2019).

METHOD

In analyzing word formation ofelectronic article in *E&T Magazine*, the method of study used by the writer is library and internet research to support the writer's analysis. From internet research, the writer browsed some articles, and from library research, she figured out some theories from some books related to her analysis. The writer uses qualitative research. (Suwarni & Handayani, 2021) defines qualitative research as "a method of inquiry employed in many different academic disciplines, traditionally in the social sciences, but also in market research and further context". It means that qualitative research used in many aspects, and qualitative is kind of method that used in a research that done systematicly.

RESULTS AND DISCUSSION

Word-Formation Processes of Electronic Article Used In *Engineering and Technology Online Magazine*

Coinage is creation of a new word since there is no appropriate borrowed of native word to express it. (Liu et al., 2020) stated that coinage or in other words called word manufacture is a new word created from names. It is commonly used by an industry for a product name.

According to webopedia that the definition of Radio frequency is any of the electromagnetic wave frequencies that lie in the range extending from below 3 kilohertz to about 300 gigahertz. Macom is distributor mouse electronic, supplier and developer of high performance analog,RF, Microwave, and millimeter; wave product that enable next generation internet and modern beetle field applications. From the explanation above that Macom has product name is radio frequency, which is a software brand name of Macom itsel, so that the radio frequency in one of part Macom as the product. We can called as radio frequency as a Macom.

Compounding

Compounding is a process of word formation in which two different words are joined together to form a new meaning. The categories of the word are noun, adjective, and verb. In this research, the writer finds one terms which belongs to compounding. Eye wear is the joint of two words eye [n] and wear [n]. Eyes means the organs of vision, they detect light and convert it into electro-chemical impulses in neurons. Then wear [n] which means carry or have on the body or about the person as covering, equipment, and ornament. Based on the explanation above that the purpose of eyewear is to know the futureof the business in the technology. The businessman is not focus on improving, but also the developing of the business of technology product.

Initialization and Acronym

The first sample of data is A Laterally diffused metal oxide semiconductor device enables the realization of a wide range of application voltage by varying impurity concentration and the length of the lightly doped drain contact region.

Based on the explanation above that LDMOS concern with the variety of the semiconductor the characteristich and power of high quality of the GaN. GaN RF transistors have continued to make inroads in RF applications as several other companies have entered in the market. Acceptance outside this market, however, has been limited by device cost as well as the inconvenience of depletion mode operation

The second sample of data is Fairchild's IGBTs (Insulated Gate Bipolar Transistors) offer lower conduction loss and lower switching loss for designing high efficiency and reliable systems. Fairchild offers an extensive portfolio of IGBT devices by various process technologies from 300V to greater than 1200V and various packages from die/wafer to TO220, D2PAK, TO3PN, TO247, Power247, and TO-264. Optimized manufacturing process results in better control and repeatability of the top-side structure, resulting in tighter specifications and better EMI performance.

Clipping

Clipping is a process of reducing some elements in a word, which occurs when a word of more than one syllable is reduced to a shorter form (Yule, 2006:55). We may shorten longer terms and then create new words.

> *"For instance, Tobii's EyeX developer kit is $139, while Danish firm The Eye Tribe has released the first eye tracker for under $100. Plummeting costs have prompted eye tracking to spill into the commercial world". (Vol 10, Issue 9, 14 September 2015)*

Based on the data above TobiiEyeX Software enables new functions that revolutionize our daily computer interaction. It enhances the experience for any laptop with a touchpad enabling users to point with their eyes naturally and intuitively.

The element of reduction, which is noticeable in blending, is even moreapparent in the process described as clipping. This occurs when a word ofmore than one syllable is reduced to a shorter form, often in case speech. Based on the expalnation that the term of **Tobiieyex** here means that **Experience.**

CONCLUSION

Having analyzed the data of this analysis, the writer conclouded that there are some types of word formation by Yule theory in *E&T magazine* september 2015 edition. The writer concluded that all the word and sentence have word formation as the hidden meaning on the structure word. The word and sentence in engineering and technology magazine have word formation based on their classification in the word and sentence as the writer has discussed in chapter four, analysis(Budiman et al., 2021),(Fitri et al., 2021),(Mandasari, 2020). There are 7 parts and in 7 parts have 14 articles those are *Eye-Tracking Tech: Countdown to Lift-of, Gaze For Video Games, Real-World Applications, Emotions And Privacy, Modelling And Design Tools Adapting To New Materials, Mobile Networks Lead, RF Power Components, TCAD takes up the mantle, Standardised Models, Google's Project Aura Revives Glass, Smart Lighting Installation To Be Revealed in Scotland, All-Optical Chip Memory Paves Way For Optical Computers, Paralysed Man Walks Again With Brain Computer Aid, Rethink Robotics Release Latest Collaborative Robot*.

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