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**HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW**  
**KARYA ILMIAH : JURNAL ILMIAH**

Judul Karya Ilmiah (Artikel) : Smoke Exposure Effect of Motor Vehicles Against Blood Sugar Levels And Pancreatic Histopathology Wistar Rats

Jumlah Penulis : 3 orang

Status Pengusul : Uly Astuti Siregar, Udadi Sadhana, Yan Wisnu Prajoko

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- Ruang lingkup dan kedalaman pembahasan : lingkup penelitian biomedik sesuai dengan bidang ilmu pengusul, pembahasan secara luas dan dalam, dibandingkan dengan penelitian terdahulu dengan mensitasi pustaka baru
- Kecukupan dan kemutahiran data/informasi dan metodologi: penelitian eksperimental laboratorium menggunakan hewan coba, data dikumpulkan dari pemeriksaan mikroskopik dan laboratorium dengan cara dan penilaian yg terstandar. Hasil penelitian ditampilkan dengan table dan gambar, namun gambar 3 kurang informatif
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Semarang, 16 Februari 2021

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# Smoke Exposure effect of motor vehicles against blood sugar levels and pancreatic histopathology wistar rats

[Siregar U.A.](#)  , [Sadhana U.](#) , [Prajoko Y.W.](#)
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**Abstract**

Diabetes is a disease caused by many factors such as lifestyle, environmental and genetic factors. The increasing incidence of type 2 diabetes is closely linked to obesity and insulin resistance. Environmental factors constitute a serious threat to health associated with the increasing air pollution. Analyzing blood sugar levels and pancreatic microscopic damage in Wistar rats by exposure to smoke in motor vehicles. This research used posttest control group design. Eighteen (18) tail white male rats were divided into three groups, namely by exposure to smoke motors for 100 seconds / day (X1), a group that is exposed to the smoke motors for 100 seconds / day and a diet high in fat (X2), and a control group. Fasting blood sugar levels (FBS) is checked on day 0 and day 30, while the degree of insulinitis examined on the 30th day. Analysis of the data increase in FBS (final FBS levels - reduced initial FBS levels) done by one way ANOVA test followed LSD Post Hoc Test, on the degree of insulinitis do Kruskal Wallis test, followed by Mann Whitney test. The mean increase in fasting blood glucose level groups X1, X2, and C is 60.50; 98.33; 6.00gr / dl, multivariate analysis showed no significant differences ( $P < 0.05$ ). Post Hoc Test LSD FBS levels show significant differences between treatment groups (X1 and X2) as compared with controls and compared with the group X1 X2. The degree of insulinitis showed no significant differences between the treatment groups (X1 and X2) to controls. Exposure to smoke in motor vehicles can increase blood sugar levels and cause damage to the pancreas in Wistar rats. © 2020 IJSTR.

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
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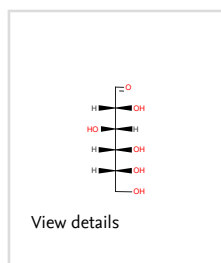
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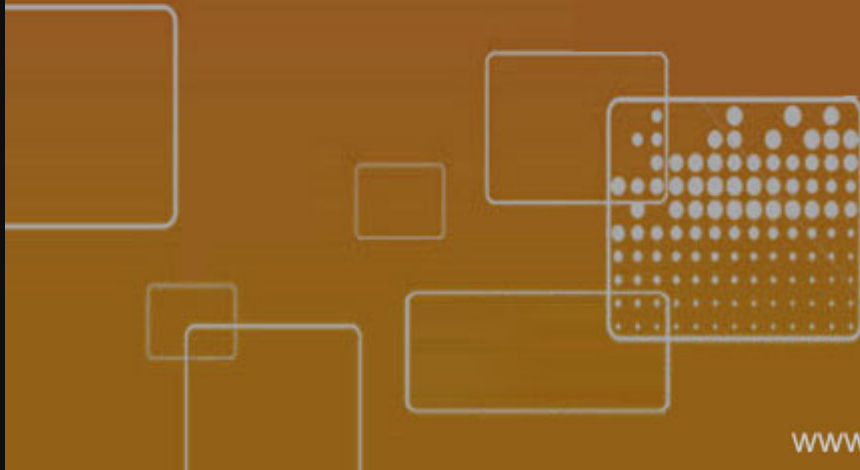
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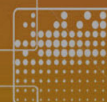
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## Current Trends In E-Learning

Raj Kumar, Dr. Shaveta Bhatia

E-learning is the buzzword of today's era and a large number of e-learning resources are available in online and offline mode. However, to derive useful pattern from this abundant pool of e-learning resources is a very tedious task. Various data mining approach can be used to generate interesting patterns from this enormous repository. The data analytics helps in analyzing the information access pattern of the users. The information access pattern can be helpful in identifying the learning behavior traits of an individual. Moreover, machine learning along with data mining has opened up new avenues. The combination of data analytics and machine learning may be used to generate targeted recommendations.

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1-3

## Precedent Behavioral Extraction System For Personalization Recommendation

Mahima

Hosting a compilation of billions of videos, YouTube presents one of the leading scale and most precious videos personalization recommendation system in existence. The recommendation system works on to personalized set of videos to users based on their past actions on the website. In this paper, we highlight the some of the major challenges that the system faces and how to address them. To tackle these issues, we have proposed a Precedent Behavioral Extraction Module (PBEM), which also deals with large-scale heterogeneous information to fulfill the requirements of the potential users. PBEM approach especially focus on the remarkable performance enhancements brought by machine learning. PBEM is a new approach as it works on discovering the precise web browsing behavior from uncertain keywords and defines the semantic measurement with user recommendation of keywords within the user query

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4-9

## Morphological Variation In Pollen Grains Of Philippine Hibiscus Rosa-Sinensis Hybrids

Divine Joy A. Mauhay, Larry V. Padilla, Fe Corazon A. Jacinto, Eileen Z. Vitug

Hybridization of both plants and animals has innumably benefitted man. An example of which is the numerous hybrids of Hibiscus rosa-sinensis which are primarily used for aesthetic purposes because of their colourful flowers. Phenotypic variations can already be observed in various parts of H.rosa-sinensis because of hybridization; hence, it is likely that modifications are occurring on microscopic structures such as the pollen. Through time, such variations could change the frequencies of alleles in the gene pool and could possibly lead to microevolution of the species. This study focused on the determination of variations in pollen grain morphology of ten (10) selected H. rosa-sinensis hybrids from the Institute of Plant Breeding of the University of the Philippines-Los Banos, specifically in terms of pollen aperture, size, shape, length of spine and sculpturing. The pollen shape, type of aperture and sculpturing were determined qualitatively. One-way ANOVA was employed if there is significant difference among the pollen of the hybrids in terms of the said quantitative characters. Pollen shape variation was determined through Elliptic Fourier Coefficient Analysis. Results showed that all hybrids have pantoporate type of aperture, echinate type of sculpturing, and spheroidal shape. Among the characters observed, variation was noted in their pollen size and spine length. Pollen size ranges from large to very large and long to very long spine length. Majority of the hybrids observed (7 out of 10) have very large pollen size and long pollen spines. One (1) hybrid has very large pollen size and short spines while two (2) have large pollen size and short pollen spines. There was also significant difference among the samples in terms of these characters based on statistical analysis. The hybrids with variations (Claire Baltazar x Cely Hermosa, Diamond Star and Vicky) cannot be considered outgroups on the basis of the said quantitative characters alone. Nevertheless, such variations observed should not be discounted as a possible modification in pollen morphology in progress as a result of hybridization.

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10-15

## A Survey To Detect Financial Fraud Using Deep Learning Approaches

Pooja Singh, Subhash Chandra Jat

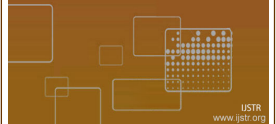
The more financial transactions have now emerged throughout the Big Data era, with numerous opportunities, threats and possibility of information theft in the face of possible fraud. This is due to the massive use of electronic paying instruments aimed at stealing confidential information and performing fraudulent transactions by attackers. While smart fraud detection systems have been established to deal with this problem, the imbalances of the data are still associated with some famous problems. This paper uses a fabricated identity to benefit financially or otherwise from identity fraud. When society moves further into a digital economy, the number of fraudulent transactions is increasingly rising. Here the emphasis is on the approaches that use profound learning and timely analysis of existing methods for the detection of payment fraud. The aim of the survey is to regularly benchmark methods for detecting fraud in online transaction volumes for industry. This test

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industries. Thus, this study focused on extracting dye from young *Adonidia Merillii* fruits husk. Traditional boiling method was applied to extract the natural colours from the fruits. Colour testing was conducted on four (4) types of fabrics which were rayon, Crepe de Chine (CDC), China Cotton and jacquard by using post-mordanting treatment. The mordants used were aqueous lime water, alum, and ashes. The colour on the textile samples was tested and evaluated via colour fastness properties. The tests conducted include exposing textile samples to artificial light, washing, rubbing, water and perspiration. *Adonidia Merillii* fruits husk have given hues of brown colour staining on the textiles, but the colour changed after the test, surprisingly on the artificial light exposure. The bright colour of the initial samples appeared to be less bright than those exposed to artificial light. The brightness of the samples was determined using blue scale grading. The findings from this experimental study may contribute to the palette colour of natural dyeing on textile and extended future research about the brightness change would be significant for the Malaysia local textile industries.

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1817-1822

### **Cultivation, Education And Arts In The Meaning Of The Pontanu Dance Movement In The Disruptive Era**

Andi Imrah Dewi, Tjetjep Rohendi Rohedi, Dharsono, Hartono

The purpose of this research is social media on the concept of cultural linkages, education and art in interpreting the movement of Pontanu Dance, as a form of social interaction of the Tribe Kaili. The purpose of this study is first to Analyze the Meaning of Pontanu Dance in Era 4.0 Second to Analyze the meaning of the Pontanu Dance symbol its relation to cultural links related to the cultural value of the ancestors of the Tribe Kaili Central Sulawesi. The method used is descriptive qualitative research with ethno chorology approach, to analyze problems based on facts and data in the field. The methods for collecting data, observing, interviewing and documenting. The results of this study lead to findings related to cultural linkages related to the educational values and character of Pontanu dance consisting of nine movements, Pontanu dance in one of the core movements of the Pontanu dance variety is motion nagalerongis a core movement that is carried out in a circular manner while twisting a thread whose symbolic meaning symbolizes the wheel of life, relating to the symbol of the contents of the universe, noble Values which are the manifestations of human personality and behavior that are patient, diligent, Responsible, disciplined, mutual mutual cooperation and consistent. The existence is in close touch with understanding the character value of 2019 Semarang State University.

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1823-1827

### **Smoke Exposure Effect Of Motor Vehicles Against Blood Sugar Levels And Pancreatic Histopathology Wistar Rats**

Uly Astuti Siregar, Udadi Sadhana, Yan Wisnu Prajoko

Diabetes is a disease caused by many factors such as lifestyle, environmental and genetic factors. The increasing incidence of type 2 diabetes is closely linked to obesity and insulin resistance. Environmental factors constitute a serious threat to health associated with the increasing air pollution. Analyzing blood sugar levels and pancreatic microscopic damage in Wistar rats by exposure to smoke in motor vehicles. This research used posttest control group design, Eighteen (18) tail white male rats were divided into three groups, namely by exposure to smoke motors for 100 seconds / day (X1), a group that is exposed to the smoke motors for 100 seconds / day and a diet high in fat (X2), and a control group. Fasting blood sugar levels (FBS) is checked on day 0 and day 30, while the degree of insulinitis examined on the 30th day. Analysis of the data increase in FBS (final FBS levels reduced initial FBS levels) done by one way ANOVA test followed LSD Post Hoc Test, on the degree of insulinitis do Kruskal Wallis test, followed by Mann Whitney test. The mean increase in fasting blood glucose level groups X1, X2, and C is 60.50; 98.33;6:00gr / dl, multivariate analysis showed no significant differences (P <0.05). Post Hoc Test LSD FBS levels show significant differences between treatment groups (X1 and X2) as compared with controls and compared with the group X1 X2. The degree of insulinitis showed no significant differences between the treatment groups (X1 and X2) to controls. Exposure to smoke in motor vehicles can increase blood sugar levels and cause damage to the pancreas in Wistar rats.

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1828-1831

### **Employee Performance Factors In Service Quality At Regent's/ City's Investment And One Stop Integrated Services (Dpmptsp) In Riau Province**

Sri Indrastuti S., Amries Rusli Tanjung, Hamdi Agustin, Rosmayani, Laila Hafni

This research aimed at studying and analyzing the factors of employee performance and quality service at Regent's/ City's Investment and One Stop Integrated Services (DPMTSP) in Riau Province. The sample was taken 25% of the population in 12 Board units in Investment Board and One Stop Service (DPMTSP) in Riau province. Four chosen units were: 1. DPMTSP in Siak regency, 2. DPMTSP in Kampar regency, 3. DPMTSP in Pekanbaru city, and 4. DPMTSP in Riau province. The overall samples were 262 people consisted of 131 employees in the Board and 131 active loyal users of the service provided. The result of this research used regression analysis and data processing by using SEM PLS. The result showed that job satisfaction had positive significant effect to the service quality. The employee performance had positive significant effect to the service quality. Work commitment, organizational culture, motivation, and job satisfaction had no effect on employee performance and service quality.

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1832-1837

### **The Role Of Social Capital In New Products Development And Business Competitiveness Enhancement**

P Eko Prasetyo, Andryan Setyadharna, Nurjannah Rahayu Kistanti

Human capital and social capital are the main keys in creating new product development in the manufacturing and entrepreneurship industries to drive economic growth and competitiveness. The better the quality of human and social capital, the more variety of new products that can be produced. The purpose of this research is to explain the role of human capital and social capital as the main key to developing new products in driving economic growth and increasing business competitiveness. This study uses exploratory designs and cross-sectional data about engineering and management in the manufacturing and entrepreneurship industries of MSMEs in the provinces of Central Java and DIY in Indonesia. The analytical method used is path analysis in the form of a dual path correlation model. The results show that human capital and social capital both have positive and significant effects in developing new products. In addition, the development of human resources and new products have a

that the activity concentration of Iodine-131 contained in the liquid effluent discharged was very low when compared with the threshold of 0.1 Bq/L. This is adduced to very high dilution (99.91%) of Iodine-131 within the hospital sewer before being discharged into the Municipal sewer system. Radiation hazard indices were also evaluated to determine the radiological burden of the effluent discharge on the surrounding. Annual Effective Dose Equivalent and Excess Life Cancer Risk values of 15.94 - 24.53  $\mu\text{Sv}/\text{yr}$  and  $0.14 \times 10^{-3}$  -  $0.20 \times 10^{-3}$  were within the acceptable standard Thresholds of 70  $\mu\text{Sv}/\text{yr}$  and  $0.29 \times 10^{-3}$  respectively. The low values of radiological properties measured for Iodine-131 in the liquid effluent discharged from the Nigerian Hospital are within acceptable clearance level for safe final discharge.

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7275-7283

# Democracy And Egypt: Two Dichotomies!

**Sobia Jamil, Syed Zohaib Abbas Rizvi**

**Abstract:** Democratic transition in Egypt has been discussed in worldwide literature. What was initially a promise of change in the norms of the theocratic state has finally gone back to the old days of dictatorial rule. A brief period of democratic rule was the byproduct of the 2012 free and fair elections. The successful government of the conservative political organization Muslim Brotherhood struggled to cope up with the contemporary socio-economic demands of a nation state. Morsi tried to strengthen his position by containing the powers of judiciary, but this move back fired. Massive protests engulfed Cairo and the inevitable happened. General Sisi stepped in and started another dictatorial rule. Egyptian politics has started allowing other parties and candidates to contest the presidential elections, but the levels of rigging are so high that a genuine participant ends up withdrawing his candidature leaving the field open to the whim of the dictators. The democratic norms of Egypt reflect the culture of an Arab state. Democracy takes time to flourish as its roots gradually transcend deep into the society. Egypt must abide by the rules of human rights including the rights to gather and free speech.

**Index Terms:** Orthodoxy, Secularism, Constitution, Democracy, Theocracy

## 1. INTRODUCTION

Egyptian President Anwar Al-Sadat gained massive unpopularity among the Egyptians when he signed the Camp David Accords with Israel on the behest of the United States of America. This peace treaty was regarded as a document of surrender by the masters of Pan-Arabism[1]. Hostility towards Israel in the Arab world has on the higher side after the wars of 1967 and 1973. Sadat's death was an irony: he was shot dead by an extremist group posing as soldiers during their 1973 war victory's celebration's military parade in 1981. When Sadat lifted emergency in Egypt in 1980, Cairo's foreign policy had already started enjoying an amiable relationship with Israel in general and USA in particular. After Sadat's assassination, Hosni Mubarak, the vice-President stepped in as the new President of Egypt. Egyptians expected great policy gestures from him vis-à-vis Israel and Palestine, but what they witnessed was a re-imposing of the state of emergency that was only lifted once the events of the Arab Spring unfolded. Mubarak was too shrewd to risk his stay in power by giving an ear to his own people and stand against the Washington-Tel-Aviv nexus. US became the sole super power after the dismemberment of the Soviet Union and its Middle-Eastern ally Israel was the most important country to the interests of Egypt. In his third decade of rule, he started distancing from the Palestinian organization Hamas when the latter established a government in Gaza in 2007. Mubarak went to the extent of closing the Egyptian border with Gaza. Freedom Flotilla was an international horrific experience where Egypt didn't even allow humanitarian relief aid to go directly by its borders into Gaza[2]. Israel shot dead nine civilians in the Mediterranean Sea in international waters causing hues and cries, but the Turkish-Israel's diplomatic disputes settled later on. After around two and half decades of dictatorial rule, Mubarak was persuaded by public pressure to allow multi-party presidential elections in 2005. But this allowance proved to be yet another dictatorial trick by the old man. He barred Muslim Brotherhood (Ikhwan ul-Muslemeen) from contesting the 2005 elections. When the

elections concluded, Mubarak won his fifth six years' term in office with a staggering 89 percent of the total votes. Tomorrow Party's Ayman Nour came second securing a mere 7.3 percent votes. Securing the number two spot though with a magnanimous difference was enough to have him arrested on fraud charges. Eliminating opposition of any sort is a go to strategy for all the dictators. What is known as contesting in democracy is termed as dissent in a theocratic state.

Although Muslim Brotherhood (MB) wasn't allowed to field candidates in any constituency in the 2005 elections, still their affiliates and like minded people performed better than others. Brotherhood's affiliation was seen as a step towards forming an alliance against the presidency of Hosni Mubarak. But in the 2010 presidential elections, Egyptians witnessed a rigging by the security apparatus never seen before. National Democratic Party better known as the party of Mubarak or NDP secured around 95 percent of the seats: Mubarak's absolute insult to the merits of free and fair elections had sowed the seeds of dissent if not a revolution in the minds of the Egyptians. During the protests, disgruntled youth displayed their anger in different ways. The Tunisian regime changing seed was implanted by the self-immolation of a vegetable seller by the name of Mohamed Bouazizi. The same incident was emulated in front of the parliament in Cairo. Tahrir Square protests went hand in hand with the incidents of suicides. Although the Egyptian people were facing serious economic hurdles leading to high levels of poverty throughout the country, still the protests that attracted a huge number of people were largely based on the government's inability to provide its citizenry basic democratic rights like the rights to free speech and social liberty[3]. The self-immolation's tragedy's Egyptian version happened on 17 January, 2011; world's attention suddenly moved towards Cairo anticipating another Tunisia in the making. Things got intensified just after ten days on the 27<sup>th</sup> of January: the former head of IAEA (International Atomic Energy Commission), Mohamed ElBaradei, had appeared in Cairo on the side of the protestors. Even before the start of the Arab Spring, he was renowned for his contempt for the Mubarak regime[4]. He was an Egyptian by nationality and a peace maker by reputation; he was undoubtedly a man with an international reputation. The joining day of former IAEA's head was Thursday on the calendar. The very next i.e. Friday, Egypt witnessed huge clashes between the police and protestors

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# Types And Usage Locative Semas In English And Uzbek Languages

**Sulaymanova Nilyufar Jabbarovna**

**Abstract:** The article focuses on a deep analysis of English and Uzbek sentences with language units expressing locativeness category. The work contains main theoretical issues of world linguists including results of English, American, Russian and Uzbek linguists. There is a survey of theoretical literature, results and present state of the problem of the research. All tasks in the research work are logically connected and follow each other. The work contains interesting information for studying theoretical and practical aspect of English and Uzbek grammar. The classification, done by the author, can be a ground for further grammar investigations and can serve as a material for compiling manuals on theoretical and practical grammar. Theoretical analysis is proved by a numerous examples of English and Uzbek locative syntaxemes. The sentences with them are taken from original works of English and Uzbek writers, and this deserves a special value. A precious part of the work is comparative analysis of the English and Uzbek syntaxemes with the expression of locative category and deep linguistic analysis on locativeness category. The work clearly reflects similarities and differences in this aspect in both analyzed languages: English and Uzbek. The research work points at author's broad outlook and excellent skills in scientific analysis. The research work ends with author's valuable conclusions and has both theoretical and practical significance. The style of the research work is scientific features.

**Index Terms:** sema, locative, locativity, syntaxemes, stative syntaxemes, adverbial modified, locative category, qualificativity, syntactic-semantic, syntactic elements, allative, morphic-lexical and distributive signs of locative syntaxemes.

## 1 INTRODUCTION

In this work the components in the meaning of locativity are analysed by revealing syntaxemes in Uzbek and English languages. In analyzing the components of the sentence by revealing the semas, firstly, it is specifying the different categorical signs, we must define categorical features. They are "processuality", qualificativity, substantiality. It is known that, the term processuality means "process", which is contrasting with qualificative, substantial signs. Processuality is the one of the categorical syntactic-semantic features, it reflects itself as an action actionality, actional directed and state in the syntactic level and also other noncategorical signs. The lexical source of processual syntaxeme in the structure of the sentence are expressed especially by verbs, infinitives, Participle I, Participle II and at the same time they can express different types of noncategorical differential syntactic-semantic signs.

## 2 PROCEDURE FOR PAPER SUBMISSION

### 2.1 Review Stage

Some linguists for example, L.C. Barxudarov and X.A. Shtelling while advising to differentiate the actional verbs from stative action verbs on the base of lexical meanings of the verbs as transitive and intransitive forms, According to the notation of Uzbek linguist A.Xojiyev, ... "Verb expresses action, state, psychological condition and biological process" [14, p.4].

So, on the base of processuality it is admitted that verb expresses action or state, but differentiating action or state from each other is still unsolved problem. According to J. Miller, in order to differentiate syntactic forms which reflect stativity there are 3 rules: a) the verbs which express state are not used in imperative sentence as adjectives; b) the verbs, which express state are not used in the continuous forms; c) the verbs expressing state are not used with adverbs, which express adverbial modified of manner [15, p.493]. But to our mind the verbs, expressing actional and stative syntaxemes should be different from each other on the base of distributive in the structure of the sentence and their relation with other syntaxemes. Qualificativity is one of the general categorical syntactic-semantic signs its difference from processuality and substantiality is that, it shows general definition of substantiation or process. And this definition can express quality, quantity, measure, state. In the sentence structure its lexical source takes a shape in the collection of adjective, adjectival elements the numeral and noun. According to F.M. Usmonov, lexical units which express qualificativity can unite with *very how, rather, so, too*, in Uzbek language *жуда, ҳам, энг* which are related on the base of connection. If qualificativity is reflected by a noun, it cannot be connected with demonstrative and possessive pronouns [16, p.119]. It is wrong to connect the reflection of both three categorical signs with parts of speech.

That's why we shouldn't confuse substansuality with noun, because we can reflect substansuality by noun, pronoun, adjective, numerals and even by adverbs. Processuality reflects state or action and also finite and non- finite forms of the verb, in some cases it is expressed with other parts of the speech. In analyzing sentence structure by revealing syntaxemes, it is taken into consideration that substansuality is reflected with the help of different kind of parts of speech in both two languages. They are only differed from each other according to their noncategorical differential syntactic – semantic features. While analyzing syntactic elements which express locativeness we especially deal with lexical units which has substansuality. Locative syntaxeme or reflection of place in the example of English language can be expressed by

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