# New Ideas In Recognition of Cancer And Neutrosophic SuperHyperGraph With Bipartite and Path By Triangle-free search

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## 1 SYNOPSIS

In this scientific research, (Different Neutrosophic Types of Neutrosophic SuperHyper$_{\text{Triangle-free search}}$). Let a Neutrosophic SuperHyperGraph (SHG) $S$ be a pair $S = (V, E)$. Consider a Neutrosophic SuperHyperSet $E_s{}' = \{E_1, E_2, \ldots, E_s\}$. Then $E_s{}'$ is called Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ if the following expressions, terms and statements is called Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ criteria holds.

$$
\begin{aligned}
&|(\sum_{V_i \in V_s{}'} T(V_i), \sum_{V_i \in V_s{}'} I(V_i), \sum_{V_i \in V_s{}'} F(V_i))| \\
&= \max_{V_s{}'' \subseteq V_{NSHG}} |\{\ (\sum_{V_i \in V_s{}''} T(V_i), \sum_{V_i \in V_s{}''} I(V_i), \sum_{V_i \in V_s{}''} F(V_i))\ | \\
&\ \forall V_i, V_j, V_k, V_l \subseteq V_s{}'' : \\
&E^{STRONG}_{V_i,V_j,V_k,V_l} = \{V_iV_j, V_jV_k, V_kV_l, V_lV_i\} \\
&\}|.
\end{aligned}
$$

In this scientific research, new configurations are introduced for the new SuperHyperNotions, namely a Triangle-free search and a Neutrosophic Triangle-free search. Two different SuperHyperDefinitions were started for them, but research has progressed and SuperHyperNotion, SuperHyperUniform, and SuperHyperClass are well-defined and well-reviewed based on them. Literature review is implemented throughout this research. To shine the light and importance of this research, a comparison between this SuperHyperNotion with other SuperHyperNotions and basic SuperHyperNumbers is presented. Definitions are followed by examples and examples, so clarifications are guided by various tools. Applications are designed to understand the theoretical aspect of this ongoing research. "Cancer diagnosis" are the things that are being researched to explore the challenges that make sense in ongoing research and future research. It is a special case. Cells are viewed in the intended manner. There are different types of them. Some are individual and some are well modeled by groups of cells. All these types are officially called "SuperHyperVertex", but the relationships between them all are officially called "SuperHyperEdge". "SuperHyperGraph" and "Neutrosophic SuperHyperGraph" frameworks are selected and selected for research on "Cancer Diagnosis". Thus, these complex and dense super-hypermodels open avenues for research on theoretical aspects and "cancer diagnosis". Ways to pursue this scientific research have been considered. It has also been formally collected in the form of several questions and problems. It is useful to define a "neutrosophic" version of Triangle-free search. Since there are more ways to get type results a Triangle-free search becomes more understandable. In order to master the Neutrosophic Triangle-free search, there is a need to "re-define" the concept of "Triangle-free search mastery". SuperHyperVertices

and SuperHyperEdges are assigned by alphabetical labels. In this method, the position of tags is used to assign values. Suppose a Triangle-free search. If the specified table contains "values of vertices, supervertices, edges, hyperedges, and hyperedges belonging to Neutrosophic SuperHyperGraph" with key points, it is redefined. "values of vertices & number of positions in alphabet", "Values of SuperVertices&maximum values of its vertices", "values of edges&maximum values of its vertices", "super edge values&max values of its vertices", "super edge values" and maximum values of its endpoints". To get examples and structural examples, I would like to introduce the next SuperHyperClass SuperHyperGraph based on Triangle-free search. This is the original. Having the foundation of the previous definition in the SuperHyperClass type would be disciplined. If there is a need to have all Triangle-free search until Triangle-free search, then it is officially called "Triangle-free search", but otherwise, it is not Triangle-free search. There is some explanation for the original definition titled "Triangle-free search". These two examples are further explored and distinguished because they are characterized in the SuperHyperClass disciplinary methods based on a dominant Triangle-free search. Because of having Triangle-free search, there is a need to "re-define" the concept of "neutrosophic Triangle-free search" and "neutrosophic Triangle-free search". SuperHyperVertices and SuperHyperEdges are assigned by alphabetical labels. In this method, the position of tags is used to assign values. Consider a Neutrosophic SuperHyperGraph. "Neutrosophic SuperHyperGraph" is redefined if the desired table exists. And if the desired table exists, a Triangle-free search is redefined to a "Neutrosophic Triangle-free search". It is useful to define a "Neutrosophic" version of SuperHyperClasses. Since there are more ways to obtain Neutrosophic type results, a SuperHyper- Neutrosophic Triangle-free search becomes more understandable. Consider a Neutrosophic SuperHyperGraph. If the desired table exists, there are a number of Neutrosophic SuperHyperClasses. So are SuperHyperPath, SuperHyperCycle, SuperHyperStar, SuperHyperBipartite, SuperHyperMultiPartite and SuperHyperWheel. "Neutrosophic SuperHyperPath", "Neutrosophic SuperHyperCycle", "Neutrosophic SuperHyperStar", "Neutrosophic SuperHyperBipartite", "Neutrosophic SuperHyperMultiPartite" and "Neutrosophic SuperHyperWheel". A graph is SuperHyperUniform if it is a SuperHyperGraph and the number of SuperHyperEdges elements is the same. Consider a Neutrosophic SuperHyperGraph. There are a number of SuperHyperClasses as follows. It is a SuperHyperPath if there is only one SuperVertex as an intersection between two given SuperHyperEdges with two exceptions. If only one SuperVertex is given as an intersection between two SuperHyperEdges, it is SuperHyperCycle. It is SuperHyperStar and only one SuperVertex as intersection among all SuperHyperEdges. It is SuperHyperBipartite, and only one SuperVertex is given as the intersection between two SuperHyperEdges, and these SuperVertices, which form two distinct sets, have no SuperHyperEdge in common. This is SuperHyperMultiPartite. Only one SuperVertex is given as an intersection between two SuperHyperEdges, and these SuperVertices, which form separate multisets, have no SuperHyperEdge in common. If only one SuperHyperEdge among the given two SuperHyperEdges is a SuperHyperWheel and a SuperVertex has a SuperHyperEdge with any regular SuperVertex. SuperHyperModel suggests specific designs and specific architectures. SuperHyperModel is officially called "SuperHyperGraph" and "Neutrosophic SuperHyperGraph". In this SuperHyperModel, the "special" cells and the "special group" of cells are SuperHyperModeled as "SuperHyperVertices" and the common and desired properties between the "special" cells and the "special group" of cells. SuperHyperModeled as "SuperHyperEdges". Sometimes, to have a more accurate SuperHyperModel, it is useful to have some degree of determinism, uncertainty, and neutrality, in this case the SuperHyperModel is called "Neutrosophic". In future scientific research, the foundation will be based on "diagnosis of cancer" and the results and definitions will be introduced in redeemed methods.

Cancer diagnosis in long-term practice. The specific region is assigned by the model (called SuperHyperGraph) and the long cycle of movement of the cancer is determined by this scientific research. Sometimes the movement of cancer is not easy to detect, because there is certainty, uncertainty and neutrality about the movements and effects of cancer on that area. This event leads us to choose another model [which is said to be the Neutrosophic superhypergraph] in order to have a proper understanding of what happened and was done. There are some specific models, which are well known and have names, and some SuperHyperGeneral SuperHyperModels. The movements and effects of cancer in complex pathways and between complex groups of cells can be visualized with a Neutrosophic SuperHyperPath (-/SuperHyperCycle, SuperHyperStar, SuperHyperBipartite, SuperHyperMultipartite, SuperHyperWheel). The goal is to find the longest Triangle-free search or the strongest Triangle-free search in those Neutrosophic SuperHyperModels. Some general results are presented for the longest Triangle-free search called Triangle-free search and the strongest Triangle-free search called Neutrosophic Triangle-free search. Beyond that in SuperHyperStar, all possible SuperHyperPaths have only two SuperHyperEdges, but it is not enough as having at least three SuperHyperEdges is necessary to form any style of cycle. There is no form of any cycle, but literally, it is the transformation of any cycle. It literally transforms and does not form. A basic introduction to the theory of Triangle-free search Neutrosophic, SuperHyperGraphs and Neutrosophic SuperHyperGraphs is suggested.

**Keywords:** Neutrosophic SuperHyperGraph, SuperHyper$_{\text{Triangle-free search}}$, Cancer's Neutrosophic Recognition

**AMS Subject Classification:** 05C17, 05C22, 05E45

## 2 Applied Notions Under The Scrutiny Of The Motivation Of This Scientific Research

In this scientific research, there are ideas in the prominent frameworks of motivations. I try to bring motivations in narrative ways. Some Cells have faced attacks from the established situation with cancer attacks in this case, there is some analysis embedded in the case current situations where cells can be labeled as some groups and some groups or individuals are overlabeled, all from behaviors to overcome cancer attacks. In embedded situations, cell individuals and cell groups can be considered as "new groups". So it encourages us to find suitable SuperHyperModels for more appropriate analysis about this dirty story. I found SuperHyperModels, officially called "SuperHyperGraphs" and "Neutrosophic SuperHyperGraphs". In this SuperHyperModel, cells and groups of cells are defined as "SuperHyperVertices" and relationships between individual cells and groups of cells are defined as "SuperHyperEdges". So this is another motivation for us to do research on this SuperHyperModel based on "cancer diagnosis". Sometimes, things get worse. The situation has passed certainty and precise style. So it is beyond them. There are three descriptions, i.e., degrees of determination, uncertainty, and neutrality, for any object based on ambiguous forms, i.e., incomplete data, imprecise data, and uncertain analysis. The second model can be considered in the previous SuperHyperModel. This is SuperHyperModel. This is SuperHyperGraph but officially called "Neutrosophic SuperHyperGraphs". Cancer is a disease, but the model is supposed to understand what happens in this phenomenon. The special case of this disease is considered and some parameters are used as consequences of the model. Cells are attacked by the disease, but the movement of cancer is in a specific area. Knowing the mind of cancer can help to find some cures for this disease. SuperHyperGraph and Neutrosophic Super-HyperGraph are super-hypermodels used in "cancer diagnosis" and both are the foundation of the background of this scientific research. Sometimes cancer has occurred in an area full of cells, cell groups, and embedded styles. In this section, SuperHyperModel proposes based on the links of cancer movements in the form of unity styles with the formation of design and architecture officially called "Triangle-free search", in the themes of specialized terms and common words. Particle for direct object. Applied concepts under the investigation of the motivation of this scientific research. The "SuperHyper" prefix refers to the theme of embedded styles for background discovery for SuperHyperNotions. Cancer diagnosis in long-term practice. The specific region is assigned by the model (called SuperHyperGraph) and the long cycle of movement of the cancer is determined by this scientific research. Sometimes the movement of Cancer is not easy to identify because there is certainty, uncertainty and neutrality about the movements and effects of Cancer in that region. This event leads us to choose another model [said to be Neutrosophic SuperHyperGraph]. Easy understanding of what happened and what was done. There are some specific models that are well known and named and some general models. The movements and effects of cancer in complex pathways and between complex groups of cells can be visualized by a neurosophic superhyperpath (-/SuperHyperCycle, SuperHyperStar, SuperHyperBipartite, SuperHyperMultipartite, SuperHyperWheel). The goal is to find Triangle-free search or Neutrosophic Triangle-free search for SuperHyperModels in it. Some general results are presented. Beyond that in SuperHyperStar, all possible Neutrosophic SuperHyperPaths have only two SuperHyperEdges, but it is not enough as having at least three SuperHyperEdges is necessary to form any style of cycle. There is no form of cycle, but it is literally a form of any cycle. It literally transforms and does not form.

**Question 2.1.** *How to define "SuperHyperNotions and to do research" to find the "Triangle-free search Rate" of any cell or groups of cells based on fixed cell or fixed group of cells broadly, "Triangle-free search Rate" based on fixed groups or fixed cells. Groups of groups of cells?*

**Question 2.2.** *What are the best descriptions for "diagnosing cancer" in terms of these chaotic and dense super-hypermodels in which embedded concepts are depicted?*

This motivation to find concepts to use in this dense model is called "SuperHyperGraphs". So it motivates us to define different types of "Triangle-free search" and "neutrosophic Triangle-free search" over "superhypergraph" and "neutrosophic superhypergraph". Then this scientific research has taken more motivations to define SuperHyperClasses and find some connections among this SuperHyperNotion with other SuperHyperNotions. It motivates us to obtain examples and examples to clarify the framework of this scientific research. The general results and some of the results about some of the connections are the ways that the key point of this scientific research, "diagnosis of cancer" is more understandable and clear.

The framework of this research is as follows. First, I will introduce the basic definitions to clarify the basics. In the "Introductions" subsection, basic definitions about SuperHyperGraphs and Neutrosophic SuperHyperGraph are introduced and discussed in depth. Basic concepts are thoroughly explained and illustrated, and sometimes a literature review is used to make sense of what is to come in the coming sections. The main definitions and their explanations, along with some results on the new concepts, Triangle-free search and Neutrosophic Triangle-free search, are specified in the sections "Triangle-free search" and "Neutrosophic Triangle-free search". In the concept of dealing with results and in Triangle-free search to create logic about the continuation of the scientific research, the ideas of SuperHyperUniform and Neutrosophic SuperHyperUniform are introduced and as their consequences, the corresponding SuperHyperClasses are specified to summarize the work done in this section, as "Results on SuperHyperClasses" and "Results on Neutrosophic

SuperHyperClasses". Going back to the core concepts, clever steps towards common concepts to extend new concepts in new frameworks, SuperHyperGraph and Neutrosophic SuperHyperGraph, in "Results on SuperHyperClasses" and "Results on Neutrosophic SuperHyperClasses" sections. There is the initial scientific research on supergeneral relations and as the final and final part of the theoretical scientific research is available in the section "General results". Some general SuperHyperRelations are fundamental and are known as fundamental SuperHyperNotions, as in "General results" were extracted and discussed. "Triangle-free search", "Neutrosophic Triangle-free search", "Results on SuperHyperClasses" and "Results on Neutrosophic SuperHyperClasses". There are curious questions about what has been done about SuperHyperNotions to make sense of the superiority of this scientific research and to discover the word "best" as a description and adjective of this scientific research as presented in the "Triangle-free search" section. The keyword of this scientific research was presented in the section "Applications in cancer diagnosis" with two cases and sub-sections "Case 1: Initial steps towards SuperHyperBipartite as SuperHyperModel" and "Case 2: Incremental steps towards SuperHyperMultiperdel as SuperHyper. In the "open issues" section, there is a detailed examination and recognition of what was done in this scientific research and what happened in this scientific research in the form of "questions" and "issues" in order to understand this scientific research in an outstanding style, the advantages and limitations of this scientific research in addition to What has been done in this scientific research is stated in the "conclusion and final remarks" section.

# 3 Neutrosophic Preliminaries Of This Scientific Research On the Redeemed Ways

In this section, the basic material in this scientific research, is referred to [Single Valued Neutrosophic Set](**Ref.** [1],Definition 2.2,p.2), [Neutrosophic Set](**Ref.** [1],Definition 2.1,p.1), [Neutrosophic SuperHyperGraph (NSHG)](**Ref.** [1],Definition 2.5,p.2), [Characterization of the Neutrosophic SuperHyperGraph (NSHG)](**Ref.** [1],Definition 2.7,p.3), [t-norm](**Ref.** [1], Definition 2.7, p.3), and [Characterization of the Neutrosophic SuperHyperGraph (NSHG)](**Ref.** [1],Definition 2.7,p.3), [Neutrosophic Strength of the Neutrosophic SuperHyperPaths] (**Ref.** [1],Definition 5.3,p.7), and [Different Neutrosophic Types of Neutrosophic SuperHyperEdges (NSHE)] (**Ref.** [1],Definition 5.4,p.7). Also, the new ideas and their clarifications are addressed to **Ref.** [1].

In this subsection, the basic material which is used in this scientific research, is presented. Also, the new ideas and their clarifications are elicited.

**Definition 3.1** (Neutrosophic Set)**.** (**Ref.** [1],Definition 2.1,p.1).

Let $X$ be a Eulerian-Path-Cut of points (objects) with generic elements in $X$ denoted by $x$; then the **Neutrosophic set** $A$ (NS $A$) is an object having the form

$$A = \{< x : T_A(x), I_A(x), F_A(x) >, x \in X\}$$

where the functions $T, I, F : X \to ]^-0, 1^+[$ define respectively the a **truth-membership function**, an **indeterminacy-membership function**, and a **falsity-membership function** of the element $x \in X$ to the set $A$ with the condition

$$^-0 \leq T_A(x) + I_A(x) + F_A(x) \leq 3^+.$$

The functions $T_A(x), I_A(x)$ and $F_A(x)$ are real standard or nonstandard subsets of $]^-0, 1^+[$.

**Definition 3.2** (Single Valued Neutrosophic Set)**.** (**Ref.** [1],Definition 2.2,p.2).

Let $X$ be a Eulerian-Path-Cut of points (objects) with generic elements in $X$ denoted by $x$. A **single valued Neutrosophic set** $A$ (SVNS $A$) is characterized by truth-membership function $T_A(x)$, an indeterminacy-membership function $I_A(x)$, and a falsity-membership function $F_A(x)$. For each point $x$ in $X$, $T_A(x), I_A(x), F_A(x) \in [0, 1]$. A SVNS $A$ can be written as

$$A = \{< x : T_A(x), I_A(x), F_A(x) >, x \in X\}.$$

**Definition 3.3.** The **degree of truth-membership**, **indeterminacy-membership** and **falsity-membership of the subset** $X \subset A$ of the single valued Neutrosophic set $A = \{< x : T_A(x), I_A(x), F_A(x) >, x \in X\}$:

$$T_A(X) = \min[T_A(v_i), T_A(v_j)]_{v_i, v_j \in X},$$

$$I_A(X) = \min[I_A(v_i), I_A(v_j)]_{v_i, v_j \in X},$$

$$\text{and } F_A(X) = \min[F_A(v_i), F_A(v_j)]_{v_i, v_j \in X}.$$

**Definition 3.4.** The **support** of $X \subset A$ of the single valued Neutrosophic set $A = \{< x : T_A(x), I_A(x), F_A(x) >, x \in X\}$:

$$supp(X) = \{x \in X : \ T_A(x), I_A(x), F_A(x) > 0\}.$$

**Definition 3.5** (Neutrosophic SuperHyperGraph (NSHG))**.** (**Ref.** [1],Definition 2.5,p.2).

Assume $V'$ is a given set. a **Neutrosophic SuperHyperGraph** (NSHG) $S$ is a pair $S = (V, E)$, where

(*i*) $V = \{V_1, V_2, \ldots, V_n\}$ a finite set of finite single valued Neutrosophic subsets of $V'$;

(*ii*) $V = \{(V_i, T_{V'}(V_i), I_{V'}(V_i), F_{V'}(V_i)) : \ T_{V'}(V_i), I_{V'}(V_i), F_{V'}(V_i) \geq 0\}, \ (i = 1, 2, \ldots, n)$;

(*iii*) $E = \{E_1, E_2, \ldots, E_{n'}\}$ a finite set of finite single valued Neutrosophic subsets of $V$;

(*iv*) $E = \{(E_{i'}, T'_V(E_{i'}), I'_V(E_{i'}), F'_V(E_{i'})) : \ T'_V(E_{i'}), I'_V(E_{i'}), F'_V(E_{i'}) \geq 0\}, \ (i' = 1, 2, \ldots, n')$;

(*v*) $V_i \neq \emptyset, \ (i = 1, 2, \ldots, n)$;

(*vi*) $E_{i'} \neq \emptyset, \ (i' = 1, 2, \ldots, n')$;

(*vii*) $\sum_i supp(V_i) = V, \ (i = 1, 2, \ldots, n)$;

(*viii*) $\sum_{i'} supp(E_{i'}) = V, \ (i' = 1, 2, \ldots, n')$;

(*ix*) and the following conditions hold:

$$T'_V(E_{i'}) \leq \min[T_{V'}(V_i), T_{V'}(V_j)]_{V_i, V_j \in E_{i'}},$$

$$I'_V(E_{i'}) \leq \min[I_{V'}(V_i), I_{V'}(V_j)]_{V_i, V_j \in E_{i'}},$$

$$\text{and } F'_V(E_{i'}) \leq \min[F_{V'}(V_i), F_{V'}(V_j)]_{V_i, V_j \in E_{i'}}$$

where $i' = 1, 2, \ldots, n'$.

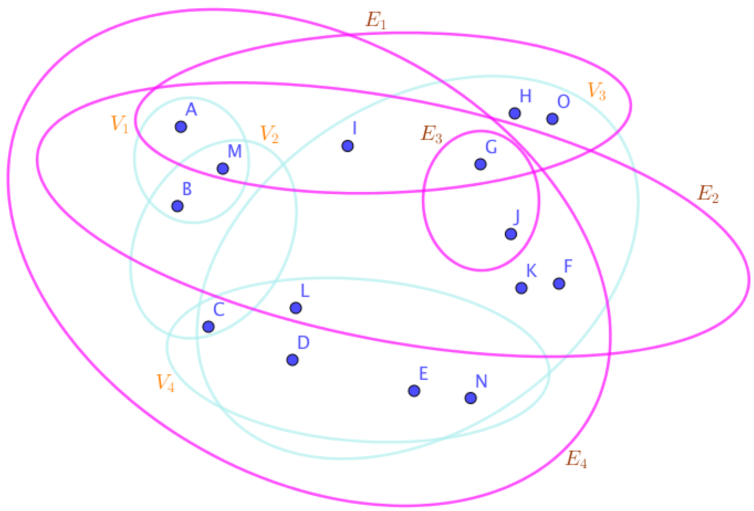


**Figure 1.** The Neutrosophic SuperHyperGraphs with a illustrated SuperHyperModeling on Recognition of Cancer in the Neutrosophic Example (3.6)

Here the Neutrosophic SuperHyperEdges (NSHE) $E_{j'}$ and the Neutrosophic SuperHyperVertices (NSHV) $V_j$ are single valued Neutrosophic sets. $T_{V'}(V_i), I_{V'}(V_i)$, and $F_{V'}(V_i)$ denote the degree of truth-membership, the degree of indeterminacy-membership and the degree of falsity-membership the Neutrosophic SuperHyperVertex (NSHV) $V_i$ to the Neutrosophic SuperHyperVertex (NSHV) $V$. $T'_V(E_{i'}), T'_V(E_{i'})$, and $T'_V(E_{i'})$ denote the degree of truth-membership, the degree of indeterminacy-membership and the degree of falsity-membership of the Neutrosophic SuperHyperEdge (NSHE) $E_{i'}$ to the Neutrosophic SuperHyperEdge (NSHE) $E$. Thus, the $ii'$th element of the **incidence matrix** of Neutrosophic SuperHyperGraph (NSHG) are of the form $(V_i, T'_V(E_{i'}), I'_V(E_{i'}), F'_V(E_{i'}))$, the sets V and E are crisp sets.

**Example 3.6.** Assume a Neutrosophic SuperHyperGraph (NSHG) $S$ is a pair $S = (V, E)$ in the mentioned Neutrosophic Figures in every Neutrosophic items.

- On the Figure (1), the Neutrosophic SuperHyperNotion, namely, Neutrosophic notion, is up. The Neutrosophic Algorithm is Neutrosophicly straightforward. $E_1$ and $E_3$ are some empty Neutrosophic SuperHyperEdges but $E_2$ is a loop Neutrosophic SuperHyperEdge and $E_4$ is a Neutrosophic SuperHyperEdge. Thus in the terms of Neutrosophic SuperHyperNeighbor, there's only one Neutrosophic SuperHyperEdge, namely, $E_4$. The Neutrosophic SuperHyperVertex, $V_3$ is Neutrosophic isolated means that there's no Neutrosophic SuperHyperEdge has it as a Neutrosophic endpoint.

- On the Figure (2), the Neutrosophic SuperHyperNotion, namely, Neutrosophic notion, is up. The Neutrosophic Algorithm is Neutrosophicly straightforward. $E_1, E_2$ and $E_3$ are some empty Neutrosophic SuperHyperEdges but $E_4$ is a Neutrosophic SuperHyperEdge. Thus in the terms of Neutrosophic SuperHyperNeighbor, there's only one Neutrosophic SuperHyperEdge, namely, $E_4$. The Neutrosophic SuperHyperVertex, $V_3$ is Neutrosophic isolated means that there's no Neutrosophic SuperHyperEdge has it as a Neutrosophic endpoint.

- On the Figure (3), the SuperHyperNotion, namely, SuperHyperGirth, is up. $E_1, E_2$ and $E_3$ are some empty SuperHyperEdges but $E_4$ is a SuperHyperEdge. Thus in the terms of SuperHyperNeighbor, theres only one SuperHyperEdge, namely, $E_4$.

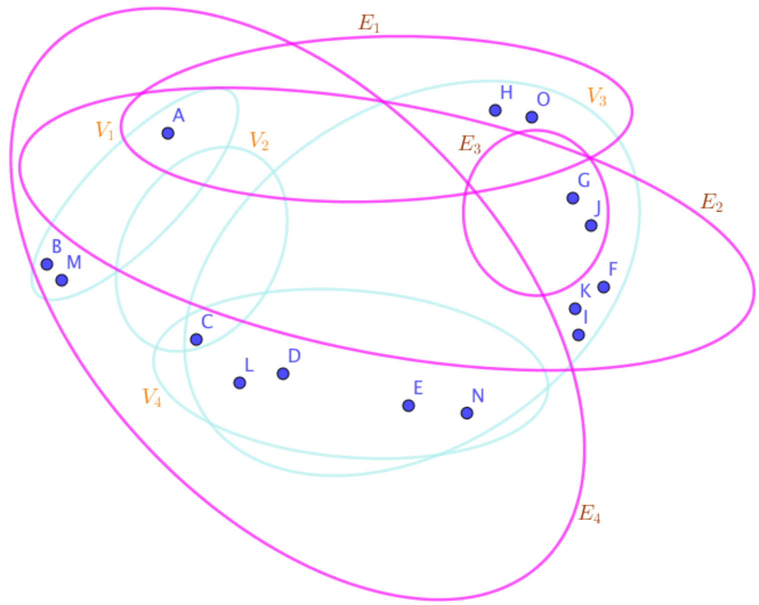


**Figure 2.** The Neutrosophic SuperHyperGraphs with a illustrated SuperHyperModeling on Recognition of Cancer in the Neutrosophic Example (3.6)

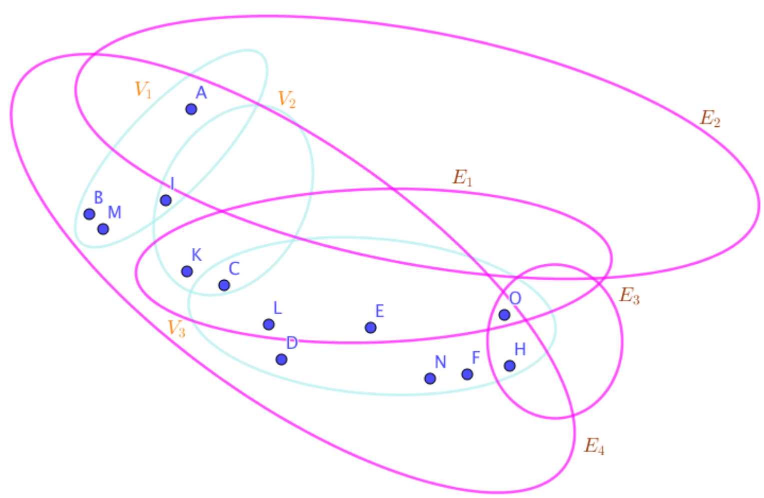


**Figure 3.** The Neutrosophic SuperHyperGraphs with a illustrated SuperHyperModeling on Recognition of Cancer in the Neutrosophic Example (3.6)

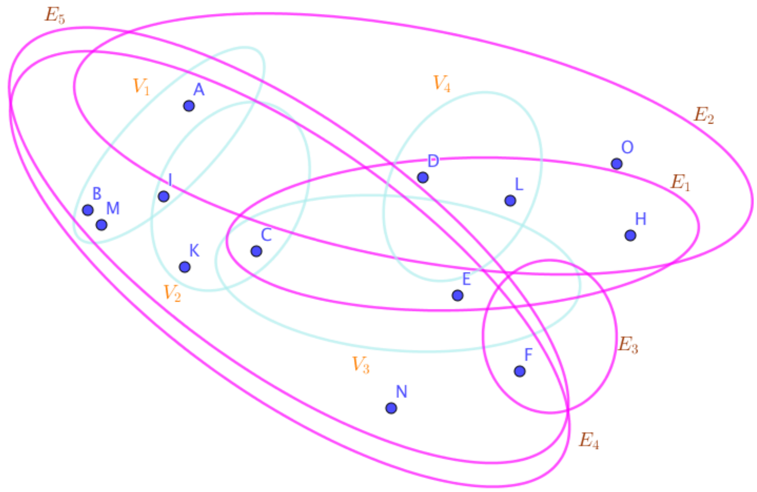


**Figure 4.** The Connected Neutrosophic SuperHyperGraphs with a illustrated SuperHyperModeling on Recognition of Cancer in the Neutrosophic Example (3.6)

- On the Figure (4), theres no empty SuperHyperEdge but $E_3$ are a loop SuperHyperEdge on $\{F\}$ and there are some SuperHyperEdges, namely, $E_1$ on $\{H, V_1, V_3\}$, alongside $E_2$ on $\{O, H, V_4, V_3\}$ and $E_4, E_5$ on $\{N, V_1, V_2, V_3, F\}$.
- On the Figure (5),theres neither empty SuperHyperEdge nor loop SuperHyperEdge.
- On the Figure (6), theres neither empty SuperHyperEdge nor loop SuperHyperEdge.
- On the Figure (7), theres neither empty SuperHyperEdge nor loop SuperHyperEdge.
- On the Figure (8), theres neither empty SuperHyperEdge nor loop SuperHyperEdge.
- On the Figure (9), theres neither empty SuperHyperEdge nor loop SuperHyperEdge.
- On the Figure (10), theres neither empty SuperHyperEdge nor loop SuperHyperEdge.
- On the Figure (11), theres neither empty SuperHyperEdge nor loop SuperHyperEdge.
- On the Figure (12), theres neither empty SuperHyperEdge nor loop SuperHyperEdge.
- On the Figure (13), theres neither empty SuperHyperEdge nor loop SuperHyperEdge.
- On the Figure (14), theres neither empty SuperHyperEdge nor loop SuperHyperEdge.
- On the Figure (15), theres neither empty SuperHyperEdge nor loop SuperHyperEdge.

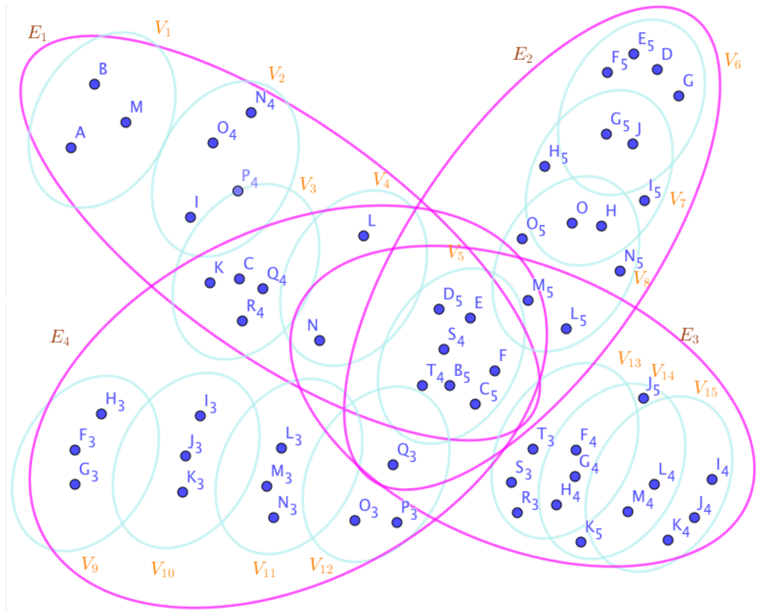

**Figure 5.** The Connected Neutrosophic SuperHyperGraphs mentioned as the SuperHyperModeling on Recognition of Cancer in the Neutrosophic Example (3.6)

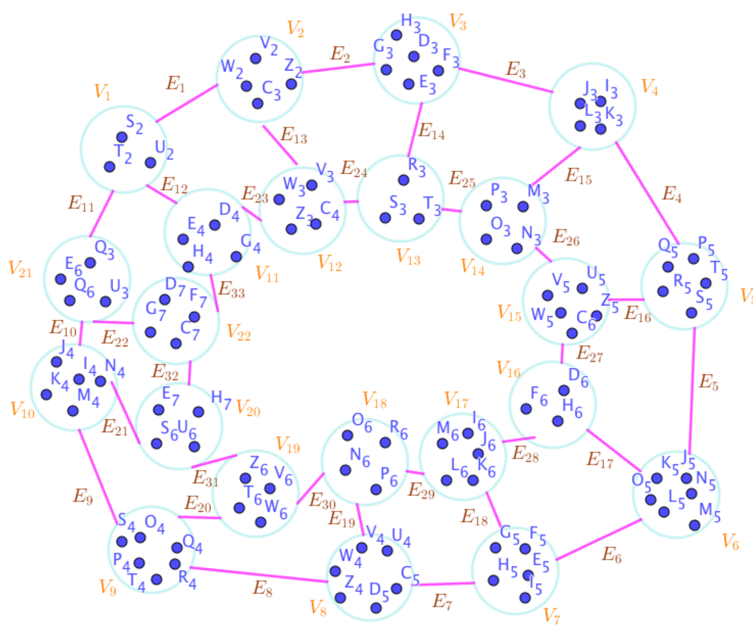

**Figure 6.** The Connected Neutrosophic SuperHyperGraphs with a illustrated SuperHyperModeling on Recognition of Cancer in the Neutrosophic Example (3.6)

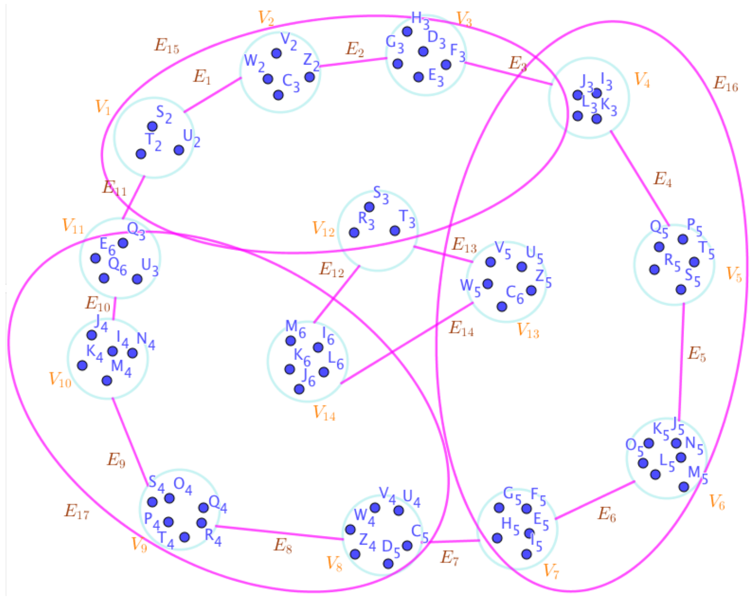


**Figure 7.** The Connected Neutrosophic SuperHyperGraphs depicted SuperHyperModeling on Recognition of Cancer in the Neutrosophic Example (3.6)

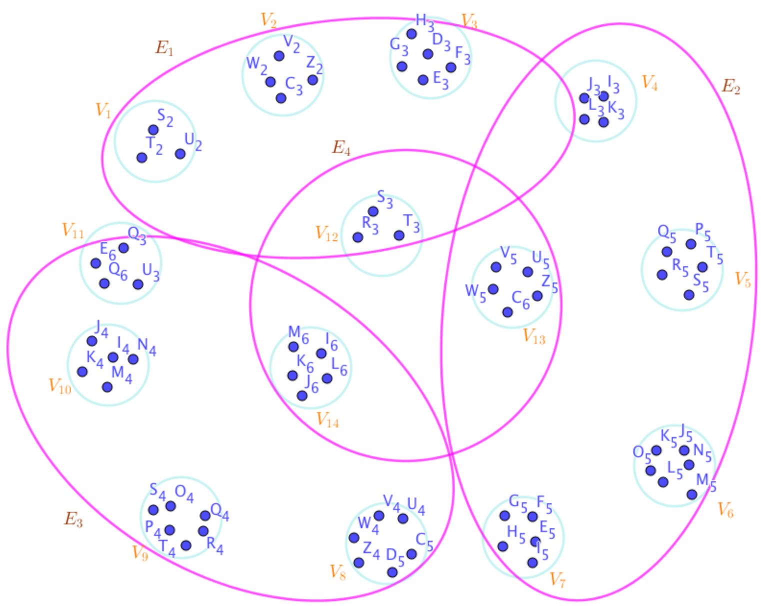


**Figure 8.** The Connected Neutrosophic SuperHyperGraphs with dense SuperHyperModeling on Recognition of Cancer in the Neutrosophic Example (3.6)

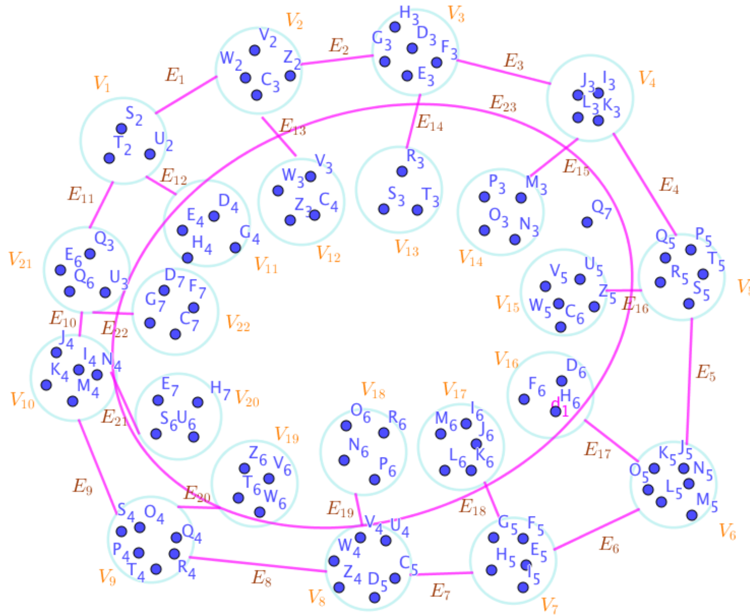

**Figure 9.** The Connected Neutrosophic SuperHyperGraphs with a messy SuperHyper-Modeling on Recognition of Cancer in the Neutrosophic Example (3.6)

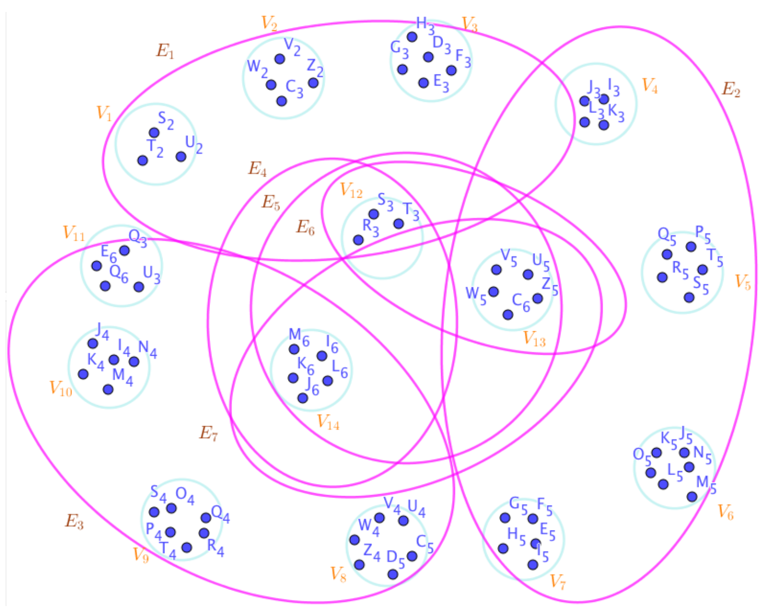

**Figure 10.** The Connected Neutrosophic SuperHyperGraphs with highly-embedding-connected SuperHyperModeling on Recognition of Cancer in the Neutrosophic Example (3.6)

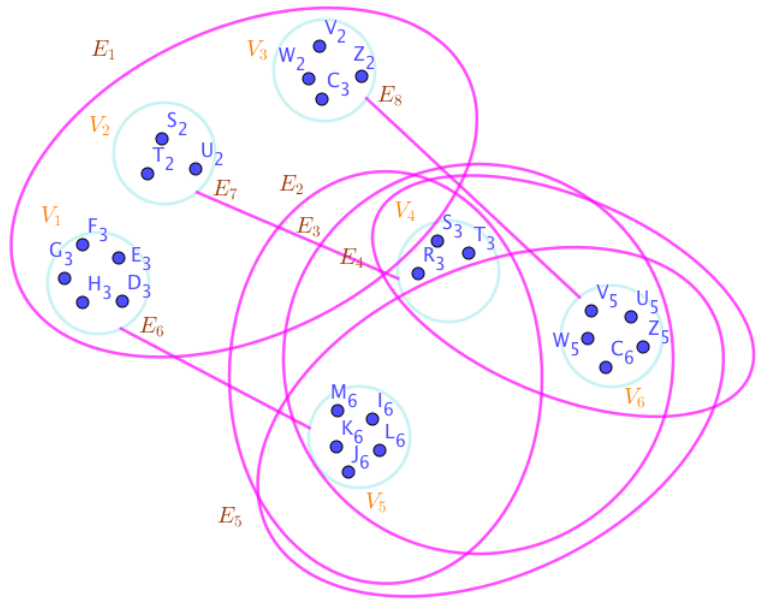


**Figure 11.** The Connected Neutrosophic SuperHyperGraphs with a SuperHyperModeling on Recognition of Cancer in the Neutrosophic Example (3.6)

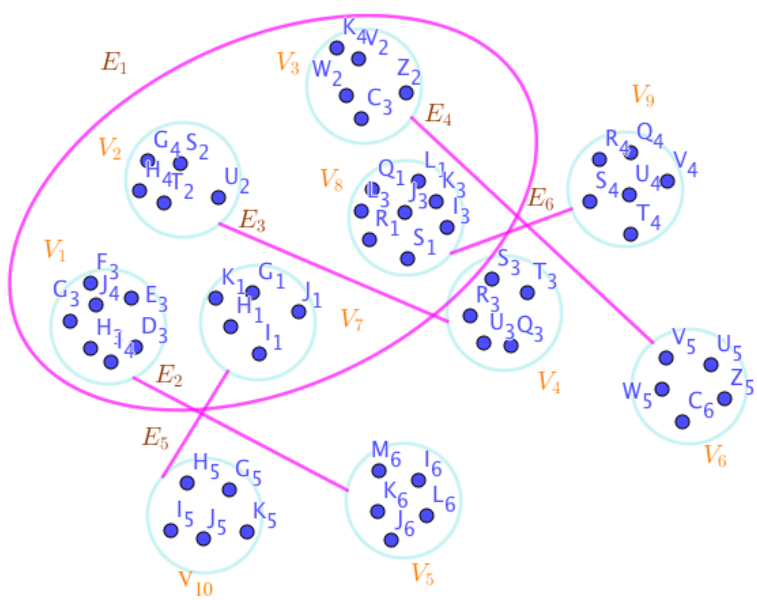


**Figure 12.** The Connected Neutrosophic SuperHyperGraphs with highly-multiple-connected-style SuperHyperModeling on Recognition of Cancer in the Neutrosophic Example (3.6)

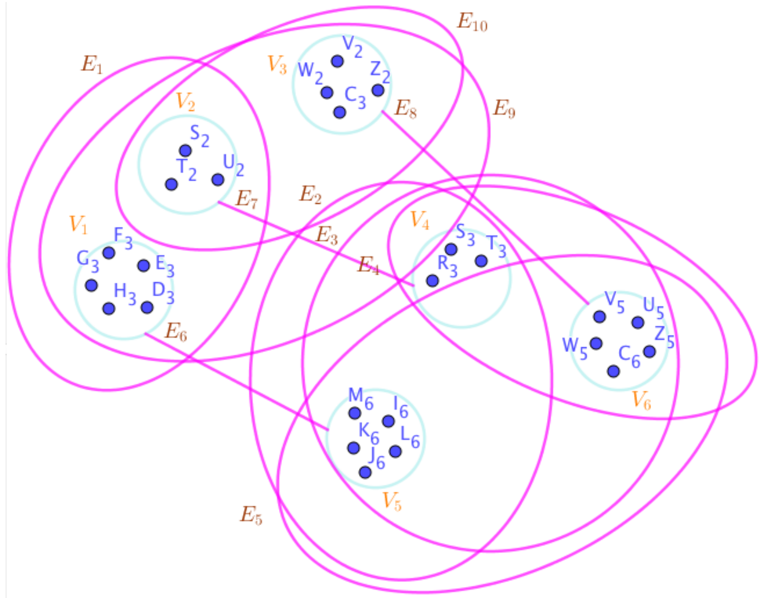


**Figure 13.** The Connected Neutrosophic SuperHyperGraphs with a SuperHyperModeling on Recognition of Cancer in the Neutrosophic Example (3.6)

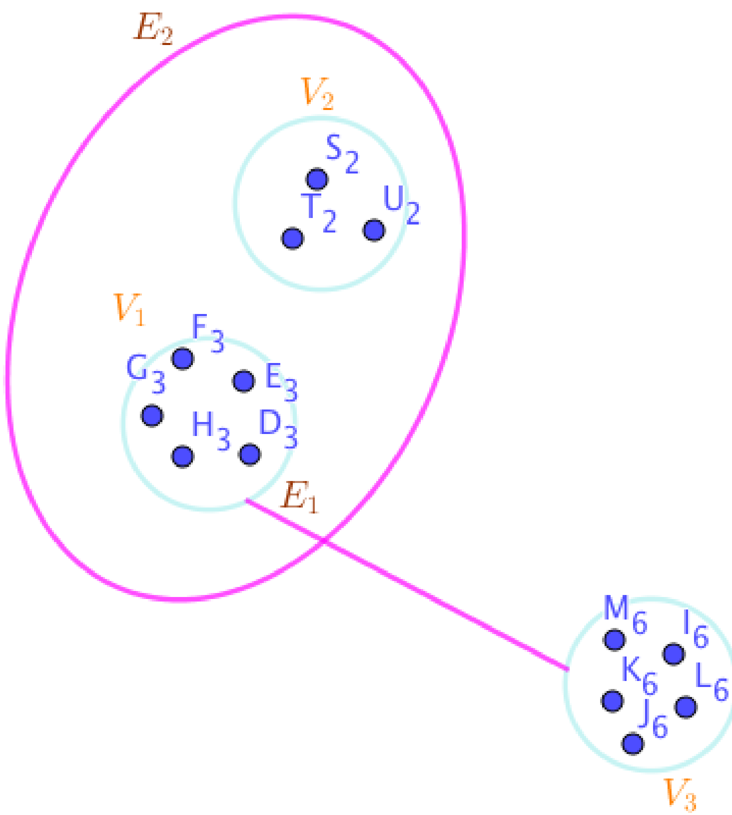


**Figure 14.** The Connected Neutrosophic SuperHyperGraphs with a SuperHyperModeling on Recognition of Cancer in the Neutrosophic Example (3.6)

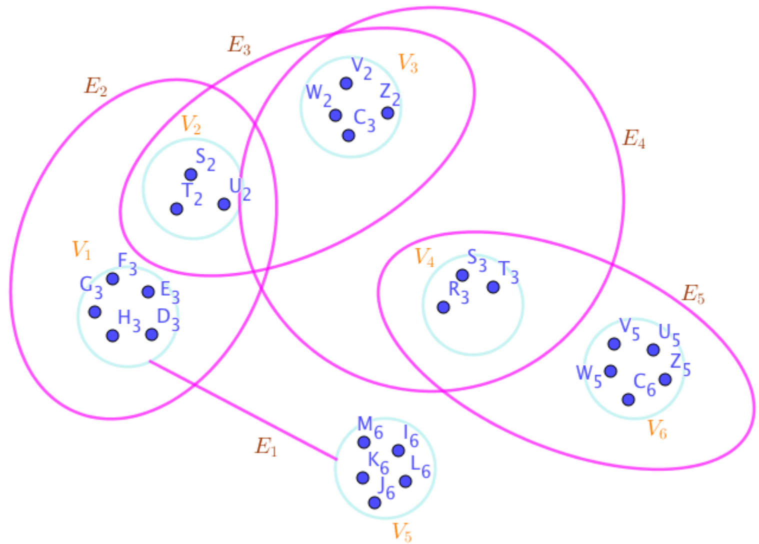

**Figure 15.** The Connected Neutrosophic SuperHyperGraphs with Linearly-Connected SuperHyperModeling on Recognition of Cancer in the Neutrosophic Example (3.6)

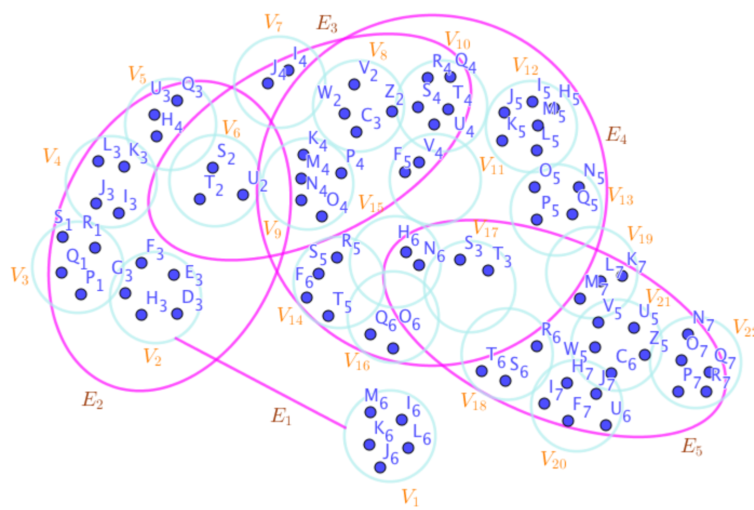

**Figure 16.** The Connected Neutrosophic SuperHyperGraphs with a SuperHyperModeling on Recognition of Cancer in the Neutrosophic Example (3.6)

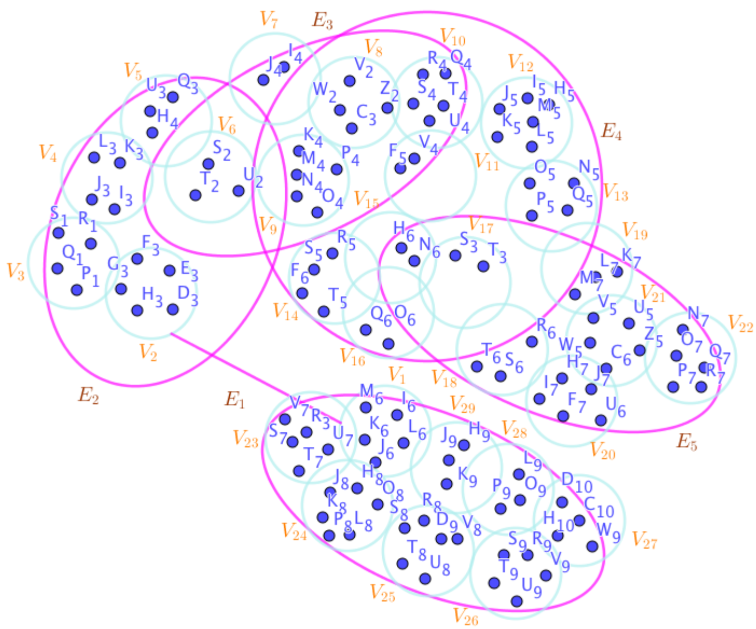


**Figure 17.** The Connected Neutrosophic SuperHyperGraphs with a Linearly-over-packed SuperHyperModeling on Recognition of Cancer in the Neutrosophic Example (3.6)

- On the Figure (16), theres neither empty SuperHyperEdge nor loop SuperHyperEdge.
- On the Figure (17), theres neither empty SuperHyperEdge nor loop SuperHyperEdge.
- On the Figure (18), theres neither empty SuperHyperEdge nor loop SuperHyperEdge.
- On the Figure (19), theres neither empty SuperHyperEdge nor loop SuperHyperEdge.
- On the Figure (20), theres neither empty SuperHyperEdge nor loop SuperHyperEdge.
- On the Figure (21), theres neither empty SuperHyperEdge nor loop SuperHyperEdge.
- On the Figure (22), theres neither empty SuperHyperEdge nor loop SuperHyperEdge.

**Definition 3.7** (Characterization of the Neutrosophic SuperHyperGraph (NSHG))**.** (**Ref.** [1],Definition 2.7,p.3).

Assume a Neutrosophic SuperHyperGraph (NSHG) $S$ is a pair $S = (V, E)$. The Neutrosophic SuperHyperEdges (NSHE) $E_{i'}$ and the Neutrosophic SuperHyperVertices (NSHV) $V_i$ of Neutrosophic SuperHyperGraph (NSHG) $S = (V, E)$ could be characterized as follow-up items.

$(i)$ If $|V_i| = 1$, then $V_i$ is called **vertex**;

$(ii)$ if $|V_i| \geq 1$, then $V_i$ is called **SuperVertex**;

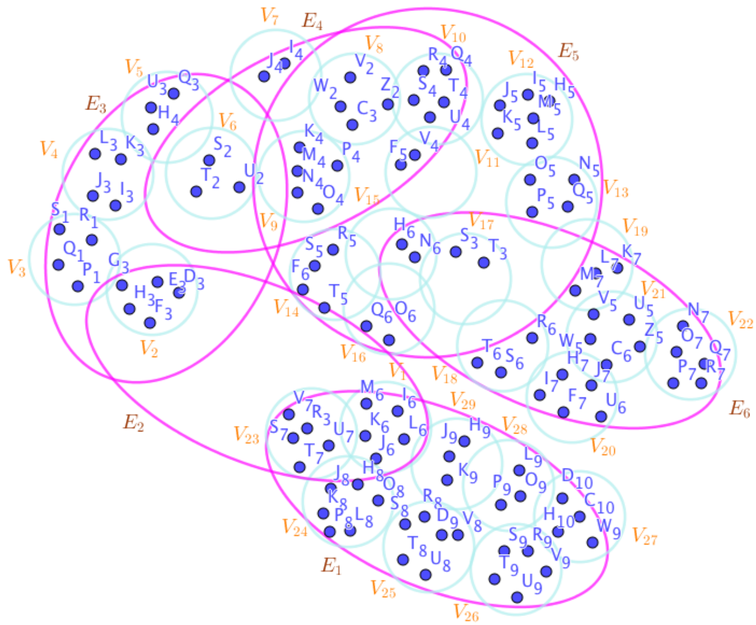

**Figure 18.** The Connected Neutrosophic SuperHyperGraphs with a SuperHyperModeling on Recognition of Cancer in the Neutrosophic Example (3.6)

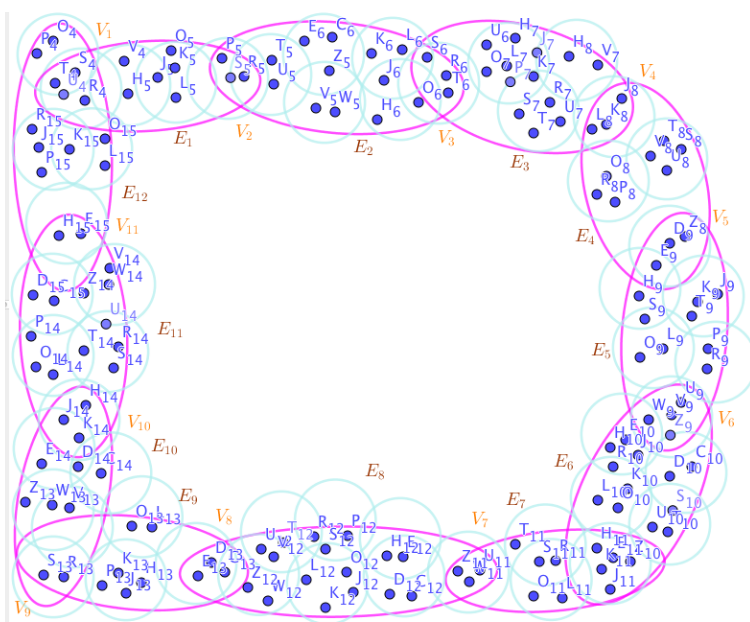

**Figure 19.** The Connected Neutrosophic SuperHyperGraphs with a SuperHyperModeling on Recognition of Cancer in the Neutrosophic Example (3.6)

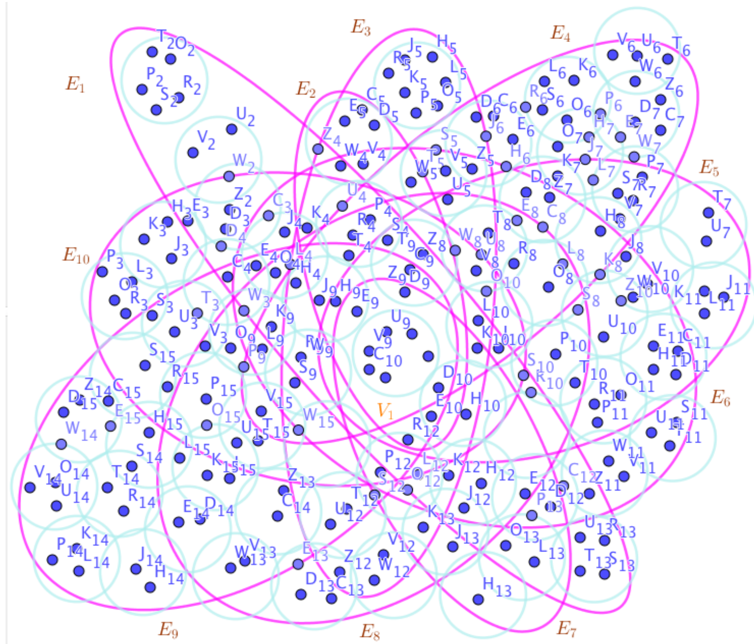


**Figure 20.** The Connected Neutrosophic SuperHyperGraphs with a SuperHyperModeling on Recognition of Cancer in the Neutrosophic Example (3.6)

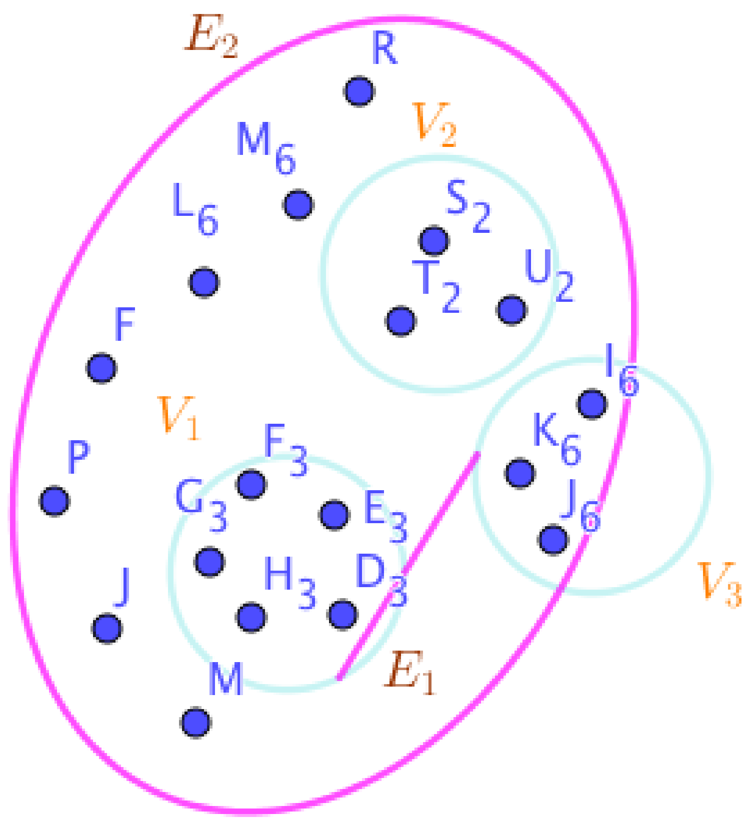


**Figure 21.** The Connected Neutrosophic SuperHyperGraphs with a SuperHyperModeling on Recognition of Cancer in the Neutrosophic Example (3.6)

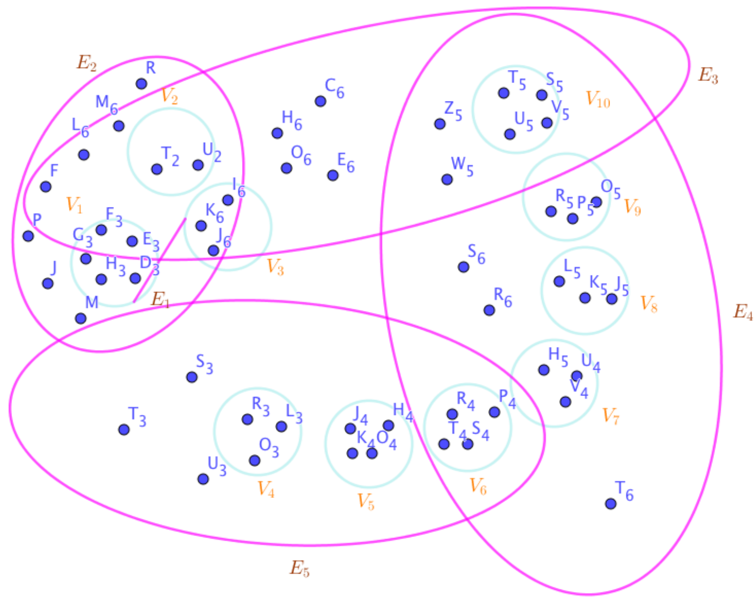


**Figure 22.** The Connected Neutrosophic SuperHyperGraphs with a SuperHyperModeling on Recognition of Cancer in the Neutrosophic Example (3.6)

$(iii)$ if for all $V_i$s are incident in $E_{i'}$, $|V_i| = 1$, and $|E_{i'}| = 2$, then $E_{i'}$ is called **edge**;

$(iv)$ if for all $V_i$s are incident in $E_{i'}$, $|V_i| = 1$, and $|E_{i'}| \geq 2$, then $E_{i'}$ is called **HyperEdge**;

$(v)$ if there's a $V_i$ is incident in $E_{i'}$ such that $|V_i| \geq 1$, and $|E_{i'}| = 2$, then $E_{i'}$ is called **SuperEdge**;

$(vi)$ if there's a $V_i$ is incident in $E_{i'}$ such that $|V_i| \geq 1$, and $|E_{i'}| \geq 2$, then $E_{i'}$ is called **SuperHyperEdge**.

If we choose different types of binary operations, then we could get hugely diverse types of general forms of Neutrosophic SuperHyperGraph (NSHG).

**Definition 3.8** (t-norm)**.** (**Ref.** [1], Definition 2.7, p.3).
A binary operation $\otimes : [0, 1] \times [0, 1] \to [0, 1]$ is a ***t*-norm** if it satisfies the following for $x, y, z, w \in [0, 1]$:

$(i)$ $1 \otimes x = x$;

$(ii)$ $x \otimes y = y \otimes x$;

$(iii)$ $x \otimes (y \otimes z) = (x \otimes y) \otimes z$;

$(iv)$ If $w \leq x$ and $y \leq z$ then $w \otimes y \leq x \otimes z$.

**Definition 3.9.** The **degree of truth-membership**, **indeterminacy-membership** and **falsity-membership of the subset** $X \subset A$ of the single valued Neutrosophic set $A = \{< x : T_A(x), I_A(x), F_A(x) >, x \in X\}$ (with respect to t-norm $T_{norm}$):

$$T_A(X) = T_{norm}[T_A(v_i), T_A(v_j)]_{v_i, v_j \in X},$$

$$I_A(X) = T_{norm}[I_A(v_i), I_A(v_j)]_{v_i, v_j \in X},$$

$$\text{and } F_A(X) = T_{norm}[F_A(v_i), F_A(v_j)]_{v_i, v_j \in X}.$$

**Definition 3.10.** The **support** of $X \subset A$ of the single valued Neutrosophic set $A = \{< x : T_A(x), I_A(x), F_A(x) >, x \in X\}$:

$$supp(X) = \{x \in X : \ T_A(x), I_A(x), F_A(x) > 0\}.$$

**Definition 3.11.** (General Forms of Neutrosophic SuperHyperGraph (NSHG)).

Assume $V'$ is a given set. a **Neutrosophic SuperHyperGraph** (NSHG) $S$ is a pair $S = (V, E)$, where

$(i)$ $V = \{V_1, V_2, \ldots, V_n\}$ a finite set of finite single valued Neutrosophic subsets of $V'$;

$(ii)$ $V = \{(V_i, T_{V'}(V_i), I_{V'}(V_i), F_{V'}(V_i)) : \ T_{V'}(V_i), I_{V'}(V_i), F_{V'}(V_i) \geq 0\}, \ (i = 1, 2, \ldots, n)$;

$(iii)$ $E = \{E_1, E_2, \ldots, E_{n'}\}$ a finite set of finite single valued Neutrosophic subsets of $V$;

$(iv)$ $E = \{(E_{i'}, T'_V(E_{i'}), I'_V(E_{i'}), F'_V(E_{i'})) : \ T'_V(E_{i'}), I'_V(E_{i'}), F'_V(E_{i'}) \geq 0\}, \ (i' = 1, 2, \ldots, n')$;

$(v)$ $V_i \neq \emptyset, \ (i = 1, 2, \ldots, n)$;

$(vi)$ $E_{i'} \neq \emptyset, \ (i' = 1, 2, \ldots, n')$;

$(vii)$ $\sum_i supp(V_i) = V, \ (i = 1, 2, \ldots, n)$;

$(viii)$ $\sum_{i'} supp(E_{i'}) = V, \ (i' = 1, 2, \ldots, n')$.

Here the Neutrosophic SuperHyperEdges (NSHE) $E_{j'}$ and the Neutrosophic SuperHyperVertices (NSHV) $V_j$ are single valued Neutrosophic sets. $T_{V'}(V_i), I_{V'}(V_i)$, and $F_{V'}(V_i)$ denote the degree of truth-membership, the degree of indeterminacy-membership and the degree of falsity-membership the Neutrosophic SuperHyperVertex (NSHV) $V_i$ to the Neutrosophic SuperHyperVertex (NSHV) $V$. $T'_V(E_{i'}), T'_V(E_{i'})$, and $T'_V(E_{i'})$ denote the degree of truth-membership, the degree of indeterminacy-membership and the degree of falsity-membership of the Neutrosophic SuperHyperEdge (NSHE) $E_{i'}$ to the Neutrosophic SuperHyperEdge (NSHE) $E$. Thus, the $ii'$th element of the **incidence matrix** of Neutrosophic SuperHyperGraph (NSHG) are of the form $(V_i, T'_V(E_{i'}), I'_V(E_{i'}), F'_V(E_{i'}))$, the sets V and E are crisp sets.

**Definition 3.12** (Characterization of the Neutrosophic SuperHyperGraph (NSHG))**.** (**Ref.** [1],Definition 2.7,p.3).

Assume a Neutrosophic SuperHyperGraph (NSHG) $S$ is a pair $S = (V, E)$. The Neutrosophic SuperHyperEdges (NSHE) $E_{i'}$ and the Neutrosophic SuperHyperVertices (NSHV) $V_i$ of Neutrosophic SuperHyperGraph (NSHG) $S = (V, E)$ could be characterized as follow-up items.

$(i)$ If $|V_i| = 1$, then $V_i$ is called **vertex**;

$(ii)$ if $|V_i| \geq 1$, then $V_i$ is called **SuperVertex**;

$(iii)$ if for all $V_i$s are incident in $E_{i'}$, $|V_i| = 1$, and $|E_{i'}| = 2$, then $E_{i'}$ is called **edge**;

$(iv)$ if for all $V_i$s are incident in $E_{i'}$, $|V_i| = 1$, and $|E_{i'}| \geq 2$, then $E_{i'}$ is called **HyperEdge**;

$(v)$ if there's a $V_i$ is incident in $E_{i'}$ such that $|V_i| \geq 1$, and $|E_{i'}| = 2$, then $E_{i'}$ is called **SuperEdge**;

(*vi*) if there's a $V_i$ is incident in $E_{i'}$ such that $|V_i| \geq 1$, and $|E_{i'}| \geq 2$, then $E_{i'}$ is called **SuperHyperEdge**.

This SuperHyperModel is too messy and too dense. Thus there's a need to have some restrictions and conditions on SuperHyperGraph. The special case of this SuperHyperGraph makes the patterns and regularities.

**Definition 3.13.** A graph is **SuperHyperUniform** if it's SuperHyperGraph and the number of elements of SuperHyperEdges are the same.

To get more visions on SuperHyperUniform, the some SuperHyperClasses are introduced. It makes to have SuperHyperUniform more understandable.

**Definition 3.14.** Assume a Neutrosophic SuperHyperGraph. There are some SuperHyperClasses as follows.

(i). It's **Neutrosophic SuperHyperPath** if it's only one SuperVertex as intersection amid two given SuperHyperEdges with two exceptions;

(ii). it's **SuperHyperCycle** if it's only one SuperVertex as intersection amid two given SuperHyperEdges;

(iii). it's **SuperHyperStar** it's only one SuperVertex as intersection amid all SuperHyperEdges;

(iv). it's **SuperHyperBipartite** it's only one SuperVertex as intersection amid two given SuperHyperEdges and these SuperVertices, forming two separate sets, has no SuperHyperEdge in common;

(v). it's **SuperHyperMultiPartite** it's only one SuperVertex as intersection amid two given SuperHyperEdges and these SuperVertices, forming multi separate sets, has no SuperHyperEdge in common;

(vi). it's **SuperHyperWheel** if it's only one SuperVertex as intersection amid two given SuperHyperEdges and one SuperVertex has one SuperHyperEdge with any common SuperVertex.

**Example 3.15.** In the Figure (23), the connected Neutrosophic SuperHyperPath $ESHP : (V, E)$, is highlighted and featured. The Neutrosophic SuperHyperSet, in the Neutrosophic SuperHyperModel (23), is the notion.

**Example 3.16.** In the Figure (24), the connected Neutrosophic SuperHyperCycle $NSHC : (V, E)$, is highlighted and featured. The obtained Neutrosophic SuperHyperSet, in the Neutrosophic SuperHyperModel (24), is up.

**Example 3.17.** In the Figure (25), the connected Neutrosophic SuperHyperStar $ESHS : (V, E)$, is highlighted and featured. The obtained Neutrosophic SuperHyperSet, by the Algorithm in previous Neutrosophic result, of the Neutrosophic SuperHyperVertices of the connected Neutrosophic SuperHyperStar $ESHS : (V, E)$, in the Neutrosophic SuperHyperModel (25), is up.

**Example 3.18.** In the Neutrosophic Figure (26), the connected Neutrosophic SuperHyperBipartite $ESHB : (V, E)$, is Neutrosophic highlighted and Neutrosophic featured. The obtained Neutrosophic SuperHyperSet, by the Neutrosophic Algorithm in previous Neutrosophic result, of the Neutrosophic SuperHyperVertices of the connected Neutrosophic SuperHyperBipartite $ESHB : (V, E)$, in the Neutrosophic SuperHyperModel (26), is up.

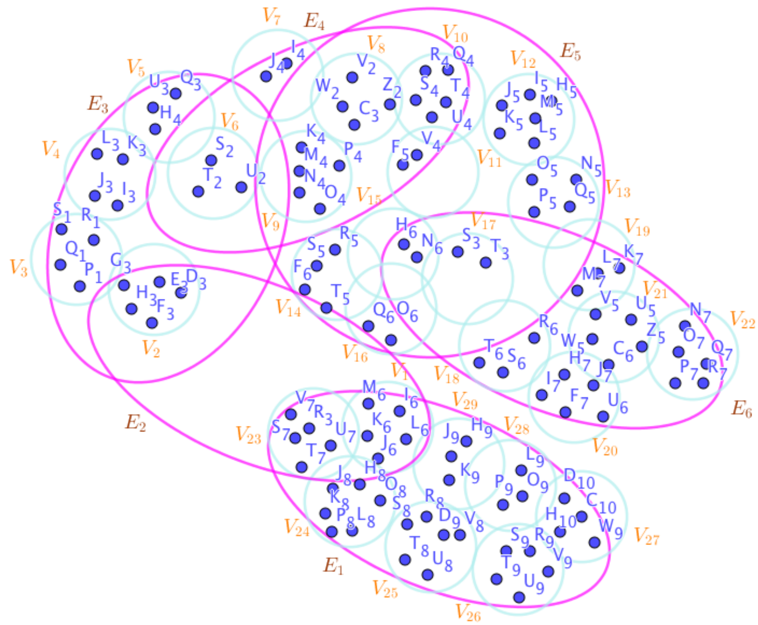

**Figure 23.** a Neutrosophic SuperHyperPath Associated to the Notions in the Example (3.15)

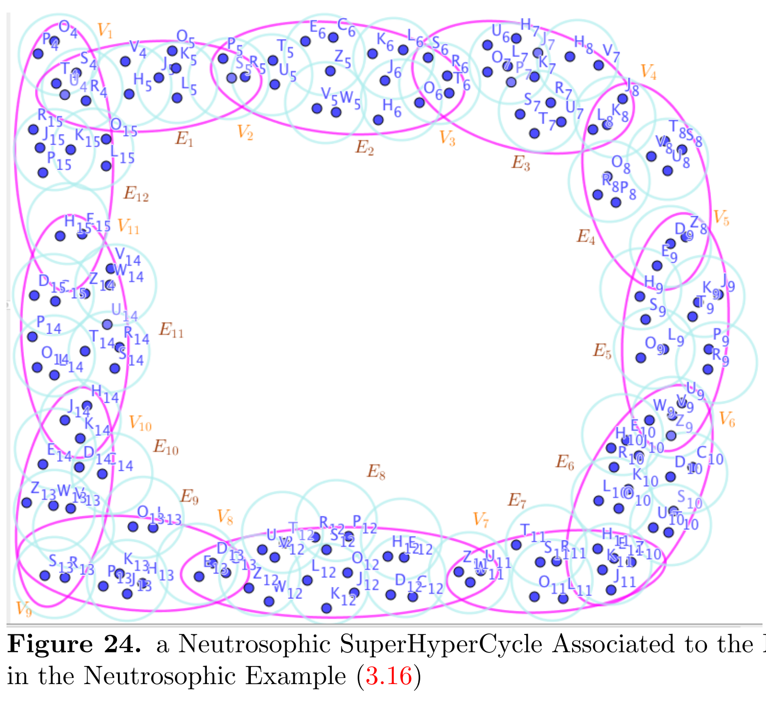

**Figure 24.** a Neutrosophic SuperHyperCycle Associated to the Neutrosophic Notions in the Neutrosophic Example (3.16)

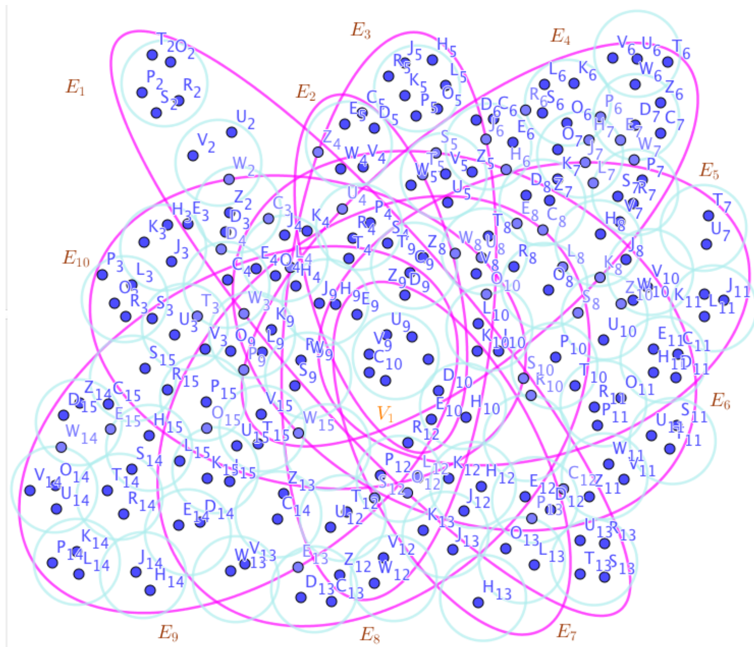


**Figure 25.** a Neutrosophic SuperHyperStar Associated to the Neutrosophic Notions in the Neutrosophic Example (3.17)

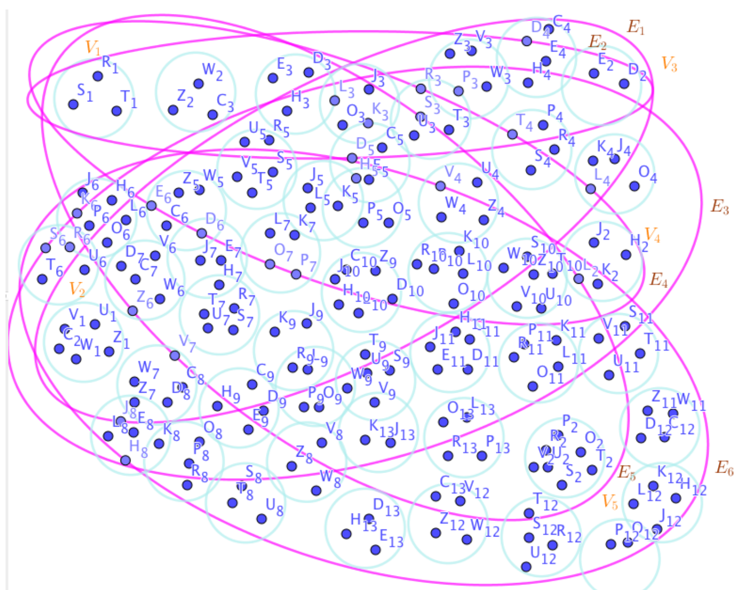


**Figure 26.** Neutrosophic SuperHyperBipartite Neutrosophic Associated to the Neutrosophic Notions in the Example (3.18)

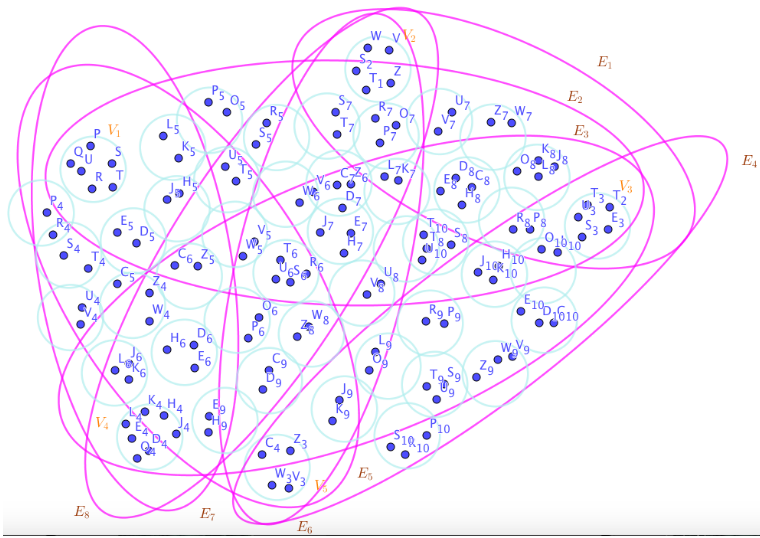

**Figure 27.** a Neutrosophic SuperHyperMultipartite Associated to the Notions in the Example (3.19)

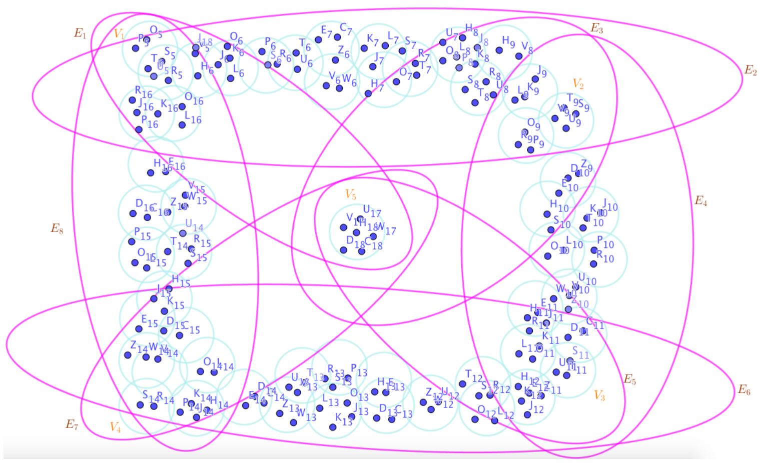

**Figure 28.** a Neutrosophic SuperHyperWheel Neutrosophic Associated to the Neutrosophic Notions in the Neutrosophic Example (3.20)

**Example 3.19.** In the Figure (27), the connected Neutrosophic SuperHyperMultipartite $ESHM : (V, E)$, is highlighted and Neutrosophic featured. The obtained Neutrosophic SuperHyperSet, by the Algorithm in previous Neutrosophic result, of the Neutrosophic SuperHyperVertices of the connected Neutrosophic SuperHyperMultipartite $ESHM : (V, E)$, in the Neutrosophic SuperHyperModel (27), is up.

**Example 3.20.** In the Neutrosophic Figure (28), the connected Neutrosophic SuperHyperWheel $NSHW : (V, E)$, is Neutrosophic highlighted and featured. The obtained Neutrosophic SuperHyperSet, by the Algorithm in previous result, of the Neutrosophic SuperHyperVertices of the connected Neutrosophic SuperHyperWheel $ESHW : (V, E)$, in the Neutrosophic SuperHyperModel (28), is up.

**Definition 3.21.** Let a pair $S = (V, E)$ be a Neutrosophic SuperHyperGraph (NSHG) $S$. Then a sequence of Neutrosophic SuperHyperVertices (NSHV) and Neutrosophic

SuperHyperEdges (NSHE)

$$V_1, E_1, V_2, E_2, V_3, \ldots, V_{s-1}, E_{s-1}, V_s$$

is called a **Neutrosophic SuperHyperPath** (NSHP) from Neutrosophic SuperHyperVertex (NSHV) $V_1$ to Neutrosophic SuperHyperVertex (NSHV) $V_s$ if either of following conditions hold:

$(i)$ $V_i, V_{i+1} \in E_{i'}$;

$(ii)$ there's a vertex $v_i \in V_i$ such that $v_i, V_{i+1} \in E_{i'}$;

$(iii)$ there's a SuperVertex $V'_i \in V_i$ such that $V'_i, V_{i+1} \in E_{i'}$;

$(iv)$ there's a vertex $v_{i+1} \in V_{i+1}$ such that $V_i, v_{i+1} \in E_{i'}$;

$(v)$ there's a SuperVertex $V'_{i+1} \in V_{i+1}$ such that $V_i, V'_{i+1} \in E_{i'}$;

$(vi)$ there are a vertex $v_i \in V_i$ and a vertex $v_{i+1} \in V_{i+1}$ such that $v_i, v_{i+1} \in E_{i'}$;

$(vii)$ there are a vertex $v_i \in V_i$ and a SuperVertex $V'_{i+1} \in V_{i+1}$ such that $v_i, V'_{i+1} \in E_{i'}$;

$(viii)$ there are a SuperVertex $V'_i \in V_i$ and a vertex $v_{i+1} \in V_{i+1}$ such that $V'_i, v_{i+1} \in E_{i'}$;

$(ix)$ there are a SuperVertex $V'_i \in V_i$ and a SuperVertex $V'_{i+1} \in V_{i+1}$ such that $V'_i, V'_{i+1} \in E_{i'}$.

**Definition 3.22.** (Characterization of the Neutrosophic SuperHyperPaths).

Assume a Neutrosophic SuperHyperGraph (NSHG) $S$ is a pair $S = (V, E)$. a Neutrosophic SuperHyperPath (NSHP) from Neutrosophic SuperHyperVertex (NSHV) $V_1$ to Neutrosophic SuperHyperVertex (NSHV) $V_s$ is sequence of Neutrosophic SuperHyperVertices (NSHV) and Neutrosophic SuperHyperEdges (NSHE)

$$V_1, E_1, V_2, E_2, V_3, \ldots, V_{s-1}, E_{s-1}, V_s,$$

could be characterized as follow-up items.

$(i)$ If for all $V_i, E_{j'}$, $|V_i| = 1,\ |E_{j'}| = 2$, then NSHP is called **path**;

$(ii)$ if for all $E_{j'}$, $|E_{j'}| = 2$, and there's $V_i$, $|V_i| \geq 1$, then NSHP is called **SuperPath**;

$(iii)$ if for all $V_i, E_{j'}$, $|V_i| = 1,\ |E_{j'}| \geq 2$, then NSHP is called **HyperPath**;

$(iv)$ if there are $V_i, E_{j'}$, $|V_i| \geq 1, |E_{j'}| \geq 2$, then NSHP is called **Neutrosophic SuperHyperPath** .

**Definition 3.23** (Neutrosophic Strength of the Neutrosophic SuperHyperPaths)**.** (**Ref.** [1],Definition 5.3,p.7).

Assume a Neutrosophic SuperHyperGraph (NSHG) $S$ is a pair $S = (V, E)$. A Neutrosophic SuperHyperPath (NSHP) from Neutrosophic SuperHyperVertex (NSHV) $V_1$ to Neutrosophic SuperHyperVertex (NSHV) $V_s$ is sequence of Neutrosophic SuperHyperVertices (NSHV) and Neutrosophic SuperHyperEdges (NSHE)

$$V_1, E_1, V_2, E_2, V_3, \ldots, V_{s-1}, E_{s-1}, V_s,$$

have

$(i)$ **Neutrosophic t-strength** $(\min\{T(V_i)\}, m, n)_{i=1}^{s}$;

$(ii)$ **Neutrosophic i-strength** $(m, \min\{I(V_i)\}, n)_{i=1}^{s}$;

**Table 1.** The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperGraph Mentioned in the Definition (3.27)

| The Values of The Vertices | The Number of Position in Alphabet |
|---|---|
| The Values of The SuperVertices | The maximum Values of Its Vertices |
| The Values of The Edges | The maximum Values of Its Vertices |
| The Values of The HyperEdges | The maximum Values of Its Vertices |
| The Values of The SuperHyperEdges | The maximum Values of Its Endpoints |

$(iii)$ **Neutrosophic f-strength** $(m, n, \min\{F(V_i)\})_{i=1}^{s}$;

$(iv)$ **Neutrosophic strength** $(\min\{T(V_i)\}, \min\{I(V_i)\}, \min\{F(V_i)\})_{i=1}^{s}$.

**Definition 3.24** (Different Neutrosophic Types of Neutrosophic SuperHyperEdges (NSHE))**.** (**Ref.** [1],Definition 5.4,p.7).

Assume a Neutrosophic SuperHyperGraph (NSHG) $S$ is a pair $S = (V, E)$. Consider a Neutrosophic SuperHyperEdge (NSHE) $E = \{V_1, V_2, \ldots, V_s\}$. Then $E$ is called

$(ix)$ **Neutrosophic t-connective** if $T(E) \geq$ maximum number of Neutrosophic t-strength of SuperHyperPath (NSHP) from Neutrosophic SuperHyperVertex (NSHV) $V_i$ to Neutrosophic SuperHyperVertex (NSHV) $V_j$ where $1 \leq i, j \leq s$;

$(x)$ **Neutrosophic i-connective** if $I(E) \geq$ maximum number of Neutrosophic i-strength of SuperHyperPath (NSHP) from Neutrosophic SuperHyperVertex (NSHV) $V_i$ to Neutrosophic SuperHyperVertex (NSHV) $V_j$ where $1 \leq i, j \leq s$;

$(xi)$ **Neutrosophic f-connective** if $F(E) \geq$ maximum number of Neutrosophic f-strength of SuperHyperPath (NSHP) from Neutrosophic SuperHyperVertex (NSHV) $V_i$ to Neutrosophic SuperHyperVertex (NSHV) $V_j$ where $1 \leq i, j \leq s$;

$(xii)$ **Neutrosophic connective** if $(T(E), I(E), F(E)) \geq$ maximum number of Neutrosophic strength of SuperHyperPath (NSHP) from Neutrosophic SuperHyperVertex (NSHV) $V_i$ to Neutrosophic SuperHyperVertex (NSHV) $V_j$ where $1 \leq i, j \leq s$.

For the sake of having a Neutrosophic notion, there's a need to "**redefine**" the notion of "Neutrosophic SuperHyperGraph". The SuperHyperVertices and the SuperHyperEdges are assigned by the labels from the letters of the alphabets. In this procedure, there's the usage of the position of labels to assign to the values.

**Definition 3.25.** Assume a Neutrosophic SuperHyperGraph (SHG) $S$ is a pair $S = (V, E)$. It's redefined **Neutrosophic SuperHyperGraph** if the Table (1) holds.

It's useful to define a "Neutrosophic" version of SuperHyperClasses. Since there's more ways to get Neutrosophic type-results to make a Neutrosophic more understandable.

**Definition 3.26.** Assume a Neutrosophic SuperHyperGraph (SHG) $S$ is a pair $S = (V, E)$. There are some **Neutrosophic SuperHyperClasses** if the Table (2) holds. Thus Neutrosophic SuperHyperPath , notion, SuperHyperStar, SuperHyperBipartite, SuperHyperMultiPartite, and SuperHyperWheel, are **Neutrosophic SuperHyperPath**, **Neutrosophic SuperHyperCycle**, **Neutrosophic SuperHyperStar**, **Neutrosophic SuperHyperBipartite**, **Neutrosophic SuperHyperMultiPartite**, and **Neutrosophic SuperHyperWheel** if the Table (2) holds.

**Table 2.** The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperGraph, Mentioned in the Definition (3.26)

| The Values of The Vertices | The Number of Position in Alphabet |
|---|---|
| The Values of The SuperVertices | The maximum Values of Its Vertices |
| The Values of The Edges | The maximum Values of Its Vertices |
| The Values of The HyperEdges | The maximum Values of Its Vertices |
| The Values of The SuperHyperEdges | The maximum Values of Its Endpoints |

**Table 3.** The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperGraph Mentioned in the Definition (3.27)

| The Values of The Vertices | The Number of Position in Alphabet |
|---|---|
| The Values of The SuperVertices | The maximum Values of Its Vertices |
| The Values of The Edges | The maximum Values of Its Vertices |
| The Values of The HyperEdges | The maximum Values of Its Vertices |
| The Values of The SuperHyperEdges | The maximum Values of Its Endpoints |

It's useful to define a "Neutrosophic" version of a Neutrosophic notion. Since there's more ways to get type-results to make a Neutrosophic notion more Neutrosophicly understandable.

For the sake of having a Neutrosophic notion, there's a need to "**redefine**" the Neutrosophic notion of "Neutrosophic notion". The SuperHyperVertices and the SuperHyperEdges are assigned by the labels from the letters of the alphabets. In this procedure, there's the usage of the position of labels to assign to the values.

**Definition 3.27.** Assume a notion. It's redefined a **Neutrosophic notion** if the Table (3) holds.

**Example 3.28.** Referred to the Example (3.6), assume a Neutrosophic SuperHyperGraph (SHG) $S$ is a pair $S = (V, E)$ in the mentioned Neutrosophic Figures in every Neutrosophic items.

- On the Figure (1), the Neutrosophic SuperHyperNotion, namely, Neutrosophic SuperHyperGraph (SHG), is up in the illustration of the Table (4).
- On the Figure (2), the Neutrosophic SuperHyperNotion, namely, Neutrosophic SuperHyperGraph (SHG), is up in the illustration of the Table (5).
- On the Figure (3), the Neutrosophic SuperHyperNotion, namely, Neutrosophic SuperHyperGraph (SHG), is up in the illustration of the Table (6).
- On the Figure (4), the Neutrosophic SuperHyperNotion, namely, Neutrosophic SuperHyperGraph (SHG), is up in the illustration of the Table (7).

**Table 4.** The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperGraph

| $V_i$ | $(T_{V_i}, I_{V_i}, F_{V_i})$ | $E_i$ | $(T_{E_i}, I_{E_i}, F_{E_i})$ |
|---|---|---|---|
| $V_1$ | $(0.13, 0.13, 0.13)$ | $E_1$ | $(0, 0, 0)$ |
| $V_2$ | $(0.13, 0.13, 0.13)$ | $E_2$ | $(0.13, 0.13, 0.13)$ |
| $V_3$ | $(0.15, 0.15, 0.15)$ | $E_3$ | $(0, 0, 0)$ |
| $V_4$ | $(0.14, 0.14, 0.14)$ | $E_4$ | $(0.14, 0.14, 0.14)$ |

**Table 5.** The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperGraph

| $V_i$ | $(T_{V_i}, I_{V_i}, F_{V_i})$ | $E_i$ | $(T_{E_i}, I_{E_i}, F_{E_i})$ |
|---|---|---|---|
| $V_1$ | $(0.13, 0.13, 0.13)$ | $E_1$ | $(0, 0, 0)$ |
| $V_2$ | $(0.03, 0.03, 0.03)$ | $E_2$ | $(0, 0, 0)$ |
| $V_3$ | $(0.15, 0.15, 0.15)$ | $E_3$ | $(0, 0, 0)$ |
| $V_4$ | $(0.14, 0.14, 0.14)$ | $E_4$ | $(0.14, 0.14, 0.14)$ |

**Table 6.** The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperGraph

| $V_i$ | $(T_{V_i}, I_{V_i}, F_{V_i})$ | $E_i$ | $(T_{E_i}, I_{E_i}, F_{E_i})$ |
|---|---|---|---|
| $V_1$ | $(0.13, 0.13, 0.13)$ | $E_1$ | $(0, 0, 0)$ |
| $V_2$ | $(0.11, 0.11, 0.11)$ | $E_2$ | $(0, 0, 0)$ |
| $V_3$ | $(0.14, 0.14, 0.14)$ | $E_3$ | $(0, 0, 0)$ |
| - | - | $E_4$ | $(0.14, 0.14, 0.14)$ |

**Table 7.** The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperGraph

| $V_i$ | $(T_{V_i}, I_{V_i}, F_{V_i})$ | $E_i$ | $(T_{E_i}, I_{E_i}, F_{E_i})$ |
|---|---|---|---|
| $V_1$ | $(0.13, 0.13, 0.13)$ | $E_1$ | $(0.08, 0.08, 0.08)$ |
| $V_2$ | $(0.11, 0.11, 0.11)$ | $E_2$ | $(0.15, 0.15, 0.15)$ |
| $V_3$ | $(0.05, 0.05, 0.05)$ | $E_3$ | $(0, 0, 0)$ |
| $V_4$ | $(0.12, 0.12, 0.12)$ | $E_4$ | $(0.14, 0.14, 0.14)$ |
| $\{F\}$ | $(0.06, 0.06, 0.06)$ | $E_5$ | $(0.14, 0.14, 0.14)$ |
| $\{H\}$ | $(0.08, 0.08, 0.08)$ | - | - |
| $\{N\}$ | $(0.14, 0.14, 0.14)$ | - | - |
| $\{O\}$ | $(0.15, 0.15, 0.15)$ | - | - |

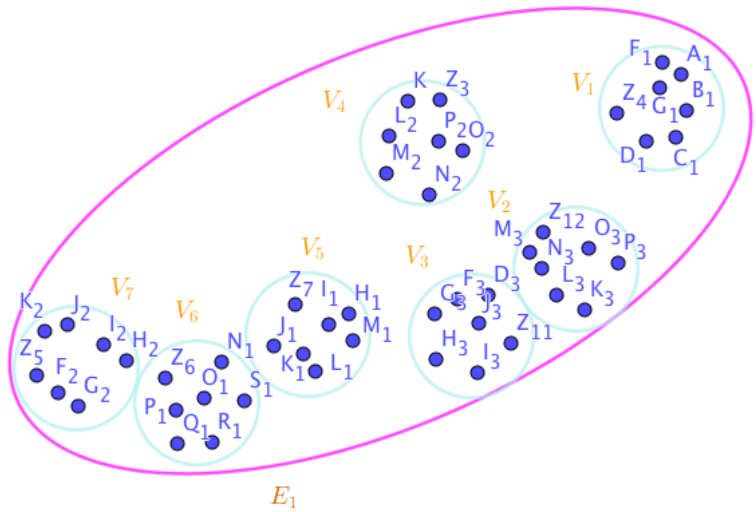


**Figure 29.** a Neutrosophic SuperHyperBipartite Neutrosophic Associated to the Neutrosophic Notions in the Neutrosophic Example (4.2)

**Table 8.** The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperBipartite

| $V_i$ | $(T_{V_i}, I_{V_i}, F_{V_i})$ | $E_i$ | $(T_{E_i}, I_{E_i}, F_{E_i})$ |
|---|---|---|---|
| $V_1$ | $(0.26, 0.26, 0.26)$ | $E_1$ | $(0.26, 0.26, 0.26)$ |
| $V_2$ | $(0.26, 0.26, 0.26)$ | - | - |
| $V_3$ | $(0.26, 0.26, 0.26)$ | - | - |
| $V_4$ | $(0.26, 0.26, 0.26)$ | $V_5$ | $(0.26, 0.26, 0.26)$ |
| $V_6$ | $(0.26, 0.26, 0.26)$ | $V_7$ | $(0.26, 0.26, 0.26)$ |

# 4 Main Resultant 512

**Definition 4.1.** (Different Neutrosophic Types of Neutrosophic SuperHyper$_{\text{Triangle-free search}}$). 513 514

Let a Neutrosophic SuperHyperGraph (SHG) $S$ be a pair $S = (V, E)$. Consider a 515 Neutrosophic SuperHyperSet $E_s{}' = \{E_1, E_2, \ldots, E_s\}$. Then $E_s{}'$ is called Neutrosophic 516 SuperHyper$_{\text{Triangle-free search}}$ if the following expressions, terms and statements is called 517 Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ criteria holds. 518

$$\begin{aligned}
&|(\sum_{V_i \in V_s{}'} T(V_i), \sum_{V_i \in V_s{}'} I(V_i), \sum_{V_i \in V_s{}'} F(V_i))| \\
&= \max_{V_s{}'' \subseteq V_{NSHG}} |\{ (\sum_{V_i \in V_s{}''} T(V_i), \sum_{V_i \in V_s{}''} I(V_i), \sum_{V_i \in V_s{}''} F(V_i)) \,| \\
&\forall V_i, V_j, V_k, V_l \subseteq V_s{}'' : \\
&E^{STRONG}_{V_i, V_j, V_k, V_l} = \{V_iV_j, V_jV_k, V_kV_l, V_lV_i\} \\
&\}|.
\end{aligned}$$

**Example 4.2.** Assume a Neutrosophic SuperHyperBipartite (SHG) $S$ is a pair 519 $S = (V, E)$ in the mentioned Neutrosophic Figures in every Neutrosophic items. 520

- On the Figure (29), the Neutrosophic SuperHyperNotion, namely, Neutrosophic 521 SuperHyperBipartite (SHG), is up in the illustration of the Table (8). 522

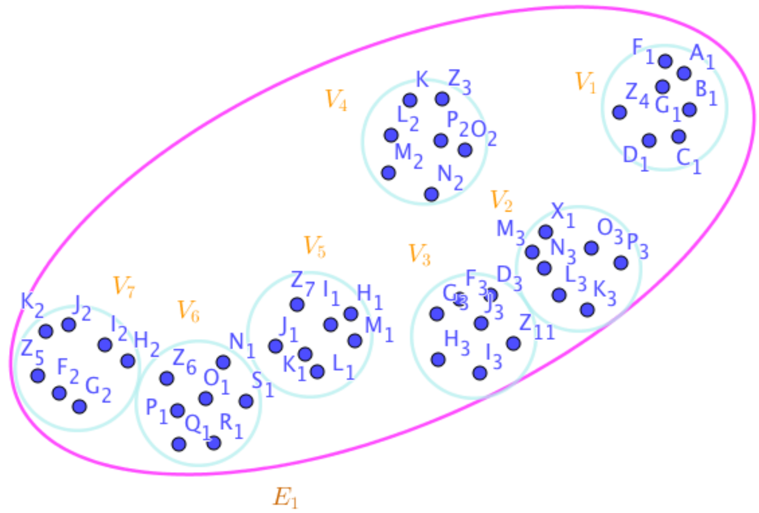

**Figure 30.** a Neutrosophic SuperHyperBipartite Neutrosophic Associated to the Neutrosophic Notions in the Neutrosophic Example (4.2)

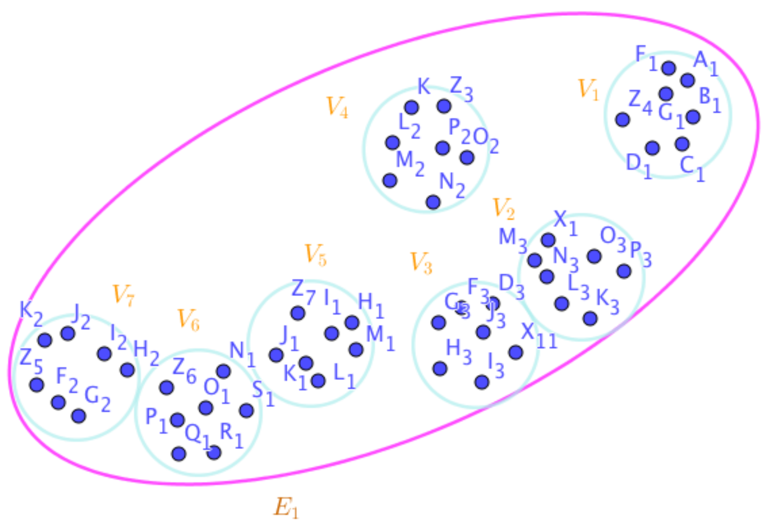

**Figure 31.** a Neutrosophic SuperHyperBipartite Neutrosophic Associated to the Neutrosophic Notions in the Neutrosophic Example (4.2)

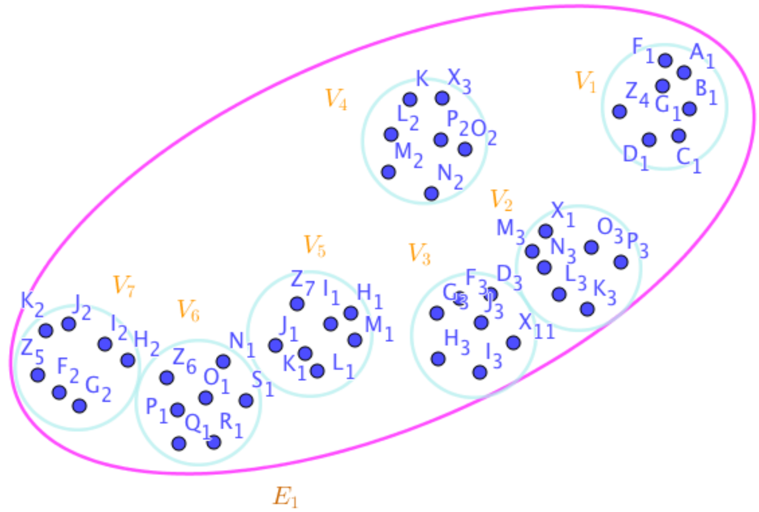


**Figure 32.** a Neutrosophic SuperHyperBipartite Neutrosophic Associated to the Neutrosophic Notions in the Neutrosophic Example (4.2)

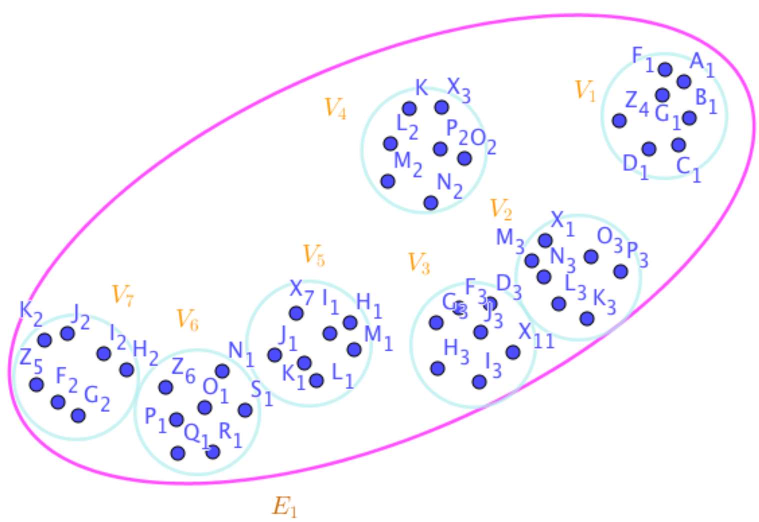


**Figure 33.** a Neutrosophic SuperHyperBipartite Neutrosophic Associated to the Neutrosophic Notions in the Neutrosophic Example (4.2)

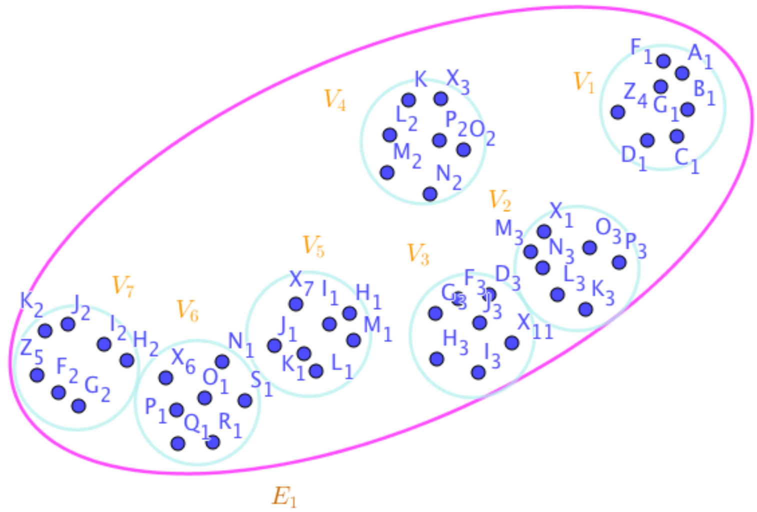

**Figure 34.** a Neutrosophic SuperHyperBipartite Neutrosophic Associated to the Neutrosophic Notions in the Neutrosophic Example (4.2)

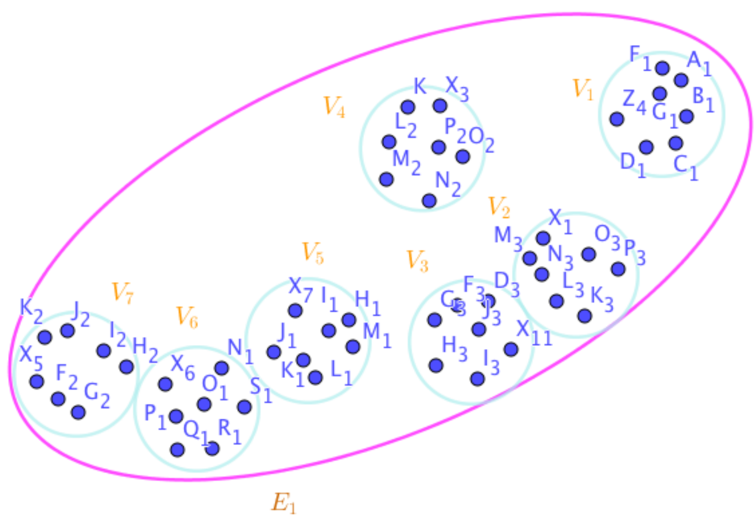

**Figure 35.** a Neutrosophic SuperHyperBipartite Neutrosophic Associated to the Neutrosophic Notions in the Neutrosophic Example (4.2)

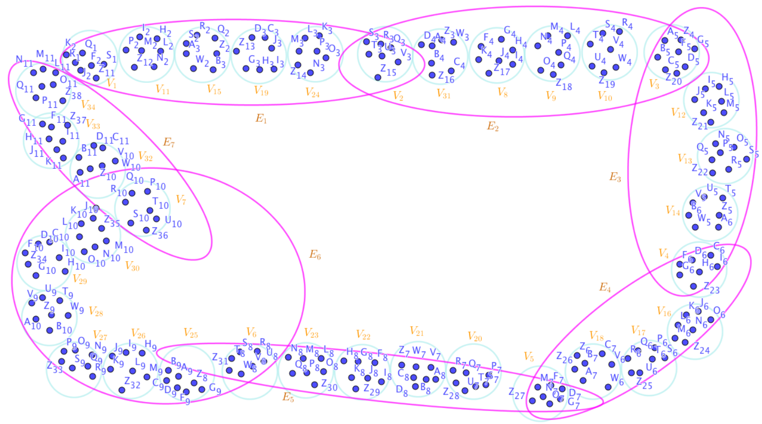

**Figure 36.** a Neutrosophic SuperHyperPath Neutrosophic Associated to the Neutrosophic Notions in the Neutrosophic Example (4.3)

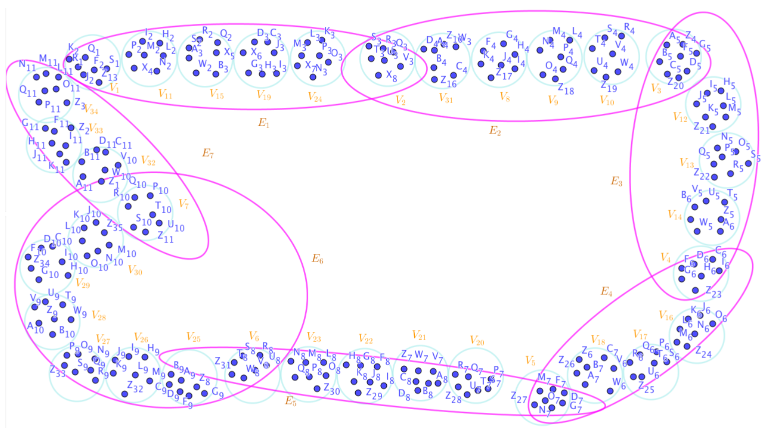

**Figure 37.** a Neutrosophic SuperHyperPath Neutrosophic Associated to the Neutrosophic Notions in the Neutrosophic Example (4.3)

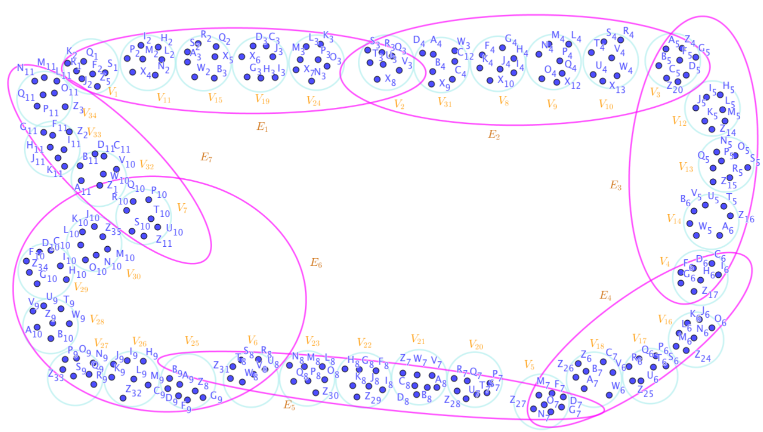

**Figure 38.** a Neutrosophic SuperHyperPath Neutrosophic Associated to the Neutrosophic Notions in the Neutrosophic Example (4.3)

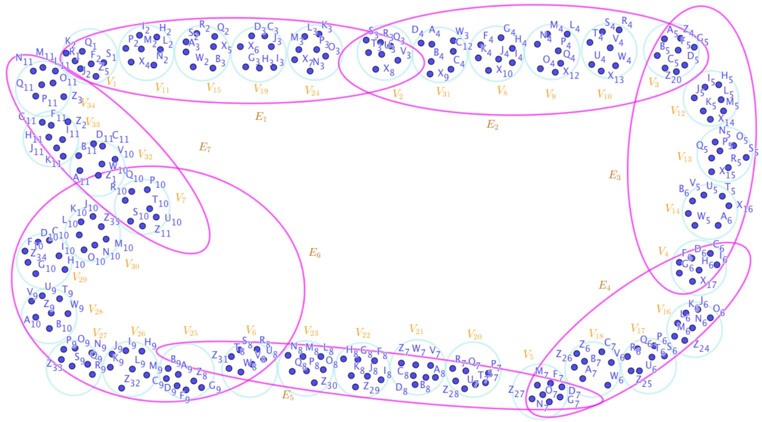

**Figure 39.** a Neutrosophic SuperHyperPath Neutrosophic Associated to the Neutrosophic Notions in the Neutrosophic Example (4.3)

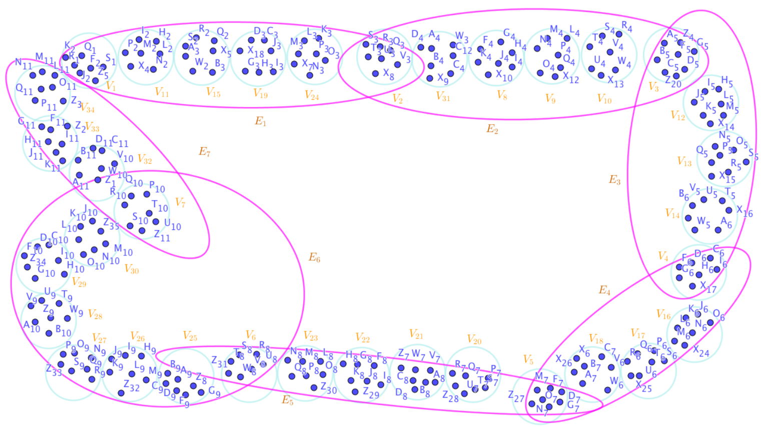

**Figure 40.** a Neutrosophic SuperHyperPath Neutrosophic Associated to the Neutrosophic Notions in the Neutrosophic Example (4.3)

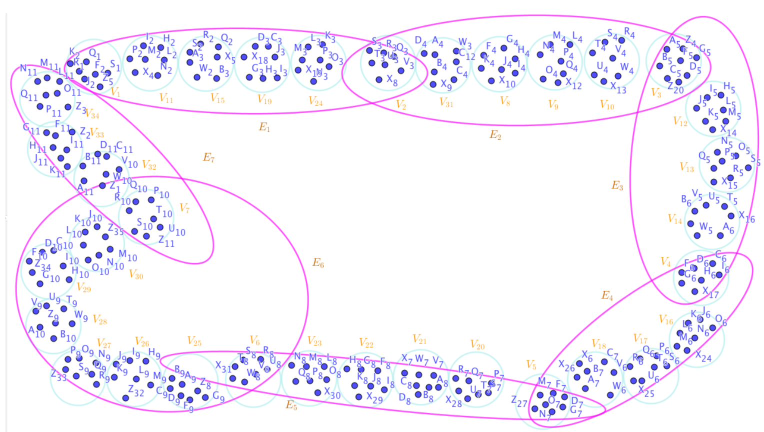

**Figure 41.** a Neutrosophic SuperHyperPath Neutrosophic Associated to the Neutrosophic Notions in the Neutrosophic Example (4.3)

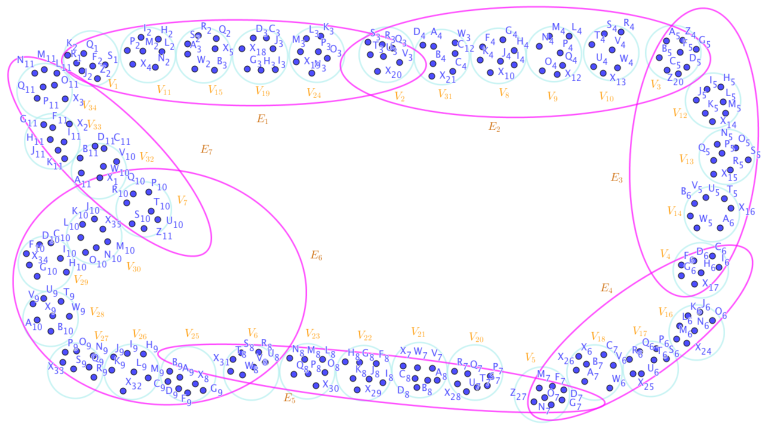

**Figure 42.** a Neutrosophic SuperHyperPath Neutrosophic Associated to the Neutrosophic Notions in the Neutrosophic Example (4.3)

**Table 9.** The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperBipartite

| $V_i$ | $(T_{V_i}, I_{V_i}, F_{V_i})$ | $E_i$ | $(T_{E_i}, I_{E_i}, F_{E_i})$ |
|---|---|---|---|
| $V_1$ | $(0.26, 0.26, 0.26)$ | $E_1$ | $(0.26, 0.26, 0.26)$ |
| $V_2$ | $(0.24, 0.24, 0.24)$ | - | - |
| $V_3$ | $(0.26, 0.26, 0.26)$ | - | - |
| $V_4$ | $(0.26, 0.26, 0.26)$ | $V_5$ | $(0.26, 0.26, 0.26)$ |
| $V_6$ | $(0.26, 0.26, 0.26)$ | $V_7$ | $(0.26, 0.26, 0.26)$ |

Let a Neutrosophic SuperHyperBipartite (SHG) $S$ be a pair $S = (V, E)$. Assume SuperHyperPart $\{V_i\}_{i=1}^{7}$. Consider a Neutrosophic SuperHyperSet $V_s{}' = \{\}$. Then $V_s{}'$ is called Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ since the following expressions, terms and statements is called Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ criteria holds.

$$
\begin{aligned}
&|(\sum_{V_i \in V_s{}' = \{\}} T(V_i),\\
&\sum_{V_i \in V_s{}' = \{\}} I(V_i),\\
&\sum_{V_i \in V_s{}' = \{\}} F(V_i))|\\
&= (0, 0, 0) =\\
&= \max_{V_s{}'' \subseteq V_{NSHG}} |\{\ (\sum_{V_i \in V_s{}''} T(V_i), \sum_{V_i \in V_s{}''} I(V_i), \sum_{V_i \in V_s{}''} F(V_i))\ |\\
&\ \forall V_i, V_j, V_k, V_l \subseteq V_s{}'' :\\
&E^{STRONG}_{V_i, V_j, V_k, V_l} = \{V_iV_j, V_jV_k, V_kV_l, V_lV_i\}\\
&\}|.
\end{aligned}
$$

- On the Figure (30), the Neutrosophic SuperHyperNotion, namely, Neutrosophic SuperHyperBipartite (SHG), is up in the illustration of the Table (9).

  Let a Neutrosophic SuperHyperBipartite (SHG) $S$ be a pair $S = (V, E)$. Assume SuperHyperPart $\{V_i\}_{i=1}^{7}$. Consider a Neutrosophic SuperHyperSet $V_s{}' = \{\}$. Then

**Table 10.** The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperBipartite

| $V_i$ | $(T_{V_i}, I_{V_i}, F_{V_i})$ | $E_i$ | $(T_{E_i}, I_{E_i}, F_{E_i})$ |
|---|---|---|---|
| $V_1$ | $(0.26, 0.26, 0.26)$ | $E_1$ | $(0.26, 0.26, 0.26)$ |
| $V_2$ | $(0.24, 0.24, 0.24)$ | - | - |
| $V_3$ | $(0.24, 0.24, 0.24)$ | - | - |
| $V_4$ | $(0.26, 0.26, 0.26)$ | $V_5$ | $(0.26, 0.26, 0.26)$ |
| $V_6$ | $(0.26, 0.26, 0.26)$ | $V_7$ | $(0.26, 0.26, 0.26)$ |

$V_s^{'}$ is called Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ since the following expressions, terms and statements is called Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ criteria holds.

$$
\begin{aligned}
&|(\sum_{V_i \in V_s^{'}=\{\}} T(V_i),\\
&\sum_{V_i \in V_s^{'}=\{\}} I(V_i),\\
&\sum_{V_i \in V_s^{'}=\{\}} F(V_i))|\\
&= (0,0,0) =\\
&= \max_{V_s^{'}{'} \subseteq V_{NSHG}} |\{\ (\sum_{V_i \in V_s^{'}{'}} T(V_i), \sum_{V_i \in V_s^{'}{'}} I(V_i), \sum_{V_i \in V_s^{'}{'}} F(V_i))\ |\\
&\ \forall V_i, V_j, V_k, V_l \subseteq V_s^{'}{'} :\\
&E^{STRONG}_{V_i,V_j,V_k,V_l} = \{V_iV_j, V_jV_k, V_kV_l, V_lV_i\}\\
&\}|.
\end{aligned}
$$

- On the Figure (31), the Neutrosophic SuperHyperNotion, namely, Neutrosophic SuperHyperBipartite (SHG), is up in the illustration of the Table (10).

  Let a Neutrosophic SuperHyperBipartite (SHG) $S$ be a pair $S = (V, E)$. Assume SuperHyperPart $\{V_i\}_{i=1}^{7}$. Consider a Neutrosophic SuperHyperSet $V_s^{'} = \{\}$. Then $V_s^{'}$ is called Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ since the following expressions, terms and statements is called Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ criteria holds.

$$
\begin{aligned}
&|(\sum_{V_i \in V_s^{'}=\{\}} T(V_i),\\
&\sum_{V_i \in V_s^{'}=\{\}} I(V_i),\\
&\sum_{V_i \in V_s^{'}=\{\}} F(V_i))|\\
&= (0,0,0) =\\
&= \max_{V_s^{'}{'} \subseteq V_{NSHG}} |\{\ (\sum_{V_i \in V_s^{'}{'}} T(V_i), \sum_{V_i \in V_s^{'}{'}} I(V_i), \sum_{V_i \in V_s^{'}{'}} F(V_i))\ |\\
&\ \forall V_i, V_j, V_k, V_l \subseteq V_s^{'}{'} :\\
&E^{STRONG}_{V_i,V_j,V_k,V_l} = \{V_iV_j, V_jV_k, V_kV_l, V_lV_i\}\\
&\}|.
\end{aligned}
$$

**Table 11.** The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperBipartite

| $V_i$ | $(T_{V_i}, I_{V_i}, F_{V_i})$ | $E_i$ | $(T_{E_i}, I_{E_i}, F_{E_i})$ |
|---|---|---|---|
| $V_1$ | $(0.26, 0.26, 0.26)$ | $E_1$ | $(0.26, 0.26, 0.26)$ |
| $V_2$ | $(0.24, 0.24, 0.24)$ | - | - |
| $V_3$ | $(0.24, 0.24, 0.24)$ | - | - |
| $V_4$ | $(0.24, 0.24, 0.24)$ | $V_5$ | $(0.26, 0.26, 0.26)$ |
| $V_6$ | $(0.26, 0.26, 0.26)$ | $V_7$ | $(0.26, 0.26, 0.26)$ |

**Table 12.** The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperBipartite

| $V_i$ | $(T_{V_i}, I_{V_i}, F_{V_i})$ | $E_i$ | $(T_{E_i}, I_{E_i}, F_{E_i})$ |
|---|---|---|---|
| $V_1$ | $(0.26, 0.26, 0.26)$ | $E_1$ | $(0.26, 0.26, 0.26)$ |
| $V_2$ | $(0.24, 0.24, 0.24)$ | - | - |
| $V_3$ | $(0.24, 0.24, 0.24)$ | - | - |
| $V_4$ | $(0.24, 0.24, 0.24)$ | $V_5$ | $(0.24, 0.24, 0.24)$ |
| $V_6$ | $(0.26, 0.26, 0.26)$ | $V_7$ | $(0.26, 0.26, 0.26)$ |

- On the Figure (32), the Neutrosophic SuperHyperNotion, namely, Neutrosophic SuperHyperBipartite (SHG), is up in the illustration of the Table (11).

  Let a Neutrosophic SuperHyperBipartite (SHG) $S$ be a pair $S = (V, E)$. Assume SuperHyperPart $\{V_i\}_{i=1}^{7}$. Consider a Neutrosophic SuperHyperSet $V_s^{'} = \{\}$. Then $V_s^{'}$ is called Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ since the following expressions, terms and statements is called Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ criteria holds.

$$
\begin{aligned}
&|(\sum_{V_i \in V_s{'}=\{\}} T(V_i),\\
&\sum_{V_i \in V_s{'}=\{\}} I(V_i),\\
&\sum_{V_i \in V_s{'}=\{\}} F(V_i))|\\
&= (0,0,0) =\\
&= \max_{V_s{'}{'} \subseteq V_{NSHG}} |\{\ (\sum_{V_i \in V_s{'}{'}} T(V_i), \sum_{V_i \in V_s{'}{'}} I(V_i), \sum_{V_i \in V_s{'}{'}} F(V_i))\ |\\
&\ \forall V_i, V_j, V_k, V_l \subseteq V_s{'}{'} :\\
&E^{STRONG}_{V_i, V_j, V_k, V_l} = \{V_iV_j, V_jV_k, V_kV_l, V_lV_i\}\\
&\}|.
\end{aligned}
$$

- On the Figure (33), the Neutrosophic SuperHyperNotion, namely, Neutrosophic SuperHyperBipartite (SHG), is up in the illustration of the Table (12).

  Let a Neutrosophic SuperHyperBipartite (SHG) $S$ be a pair $S = (V, E)$. Assume SuperHyperPart $\{V_i\}_{i=1}^{7}$. Consider a Neutrosophic SuperHyperSet $V_s^{'} = \{\}$. Then $V_s^{'}$ is called Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ since the following expressions, terms and statements is called Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ criteria holds.

$$
|(\sum_{V_i \in V_s{'}=\{\}} T(V_i),
$$

**Table 13.** The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperBipartite

| $V_i$ | $(T_{V_i}, I_{V_i}, F_{V_i})$ | $E_i$ | $(T_{E_i}, I_{E_i}, F_{E_i})$ |
|---|---|---|---|
| $V_1$ | $(0.26, 0.26, 0.26)$ | $E_1$ | $(0.26, 0.26, 0.26)$ |
| $V_2$ | $(0.24, 0.24, 0.24)$ | - | - |
| $V_3$ | $(0.24, 0.24, 0.24)$ | - | - |
| $V_4$ | $(0.24, 0.24, 0.24)$ | $V_5$ | $(0.24, 0.24, 0.24)$ |
| $V_6$ | $(0.24, 0.24, 0.24)$ | $V_7$ | $(0.26, 0.26, 0.26)$ |

$$\sum_{V_i \in V_s{}' = \{\}} I(V_i),$$
$$\sum_{V_i \in V_s{}' = \{\}} F(V_i))|$$
$$= (0, 0, 0) =$$
$$= \max_{V_s{}'' \subseteq V_{NSHG}} |\{ ( \sum_{V_i \in V_s{}''} T(V_i), \sum_{V_i \in V_s{}''} I(V_i), \sum_{V_i \in V_s{}''} F(V_i)) \mid$$
$$\forall V_i, V_j, V_k, V_l \subseteq V_s{}'' :$$
$$E^{STRONG}_{V_i,V_j,V_k,V_l} = \{V_iV_j, V_jV_k, V_kV_l, V_lV_i\}$$
$$\}|.$$

- On the Figure (34), the Neutrosophic SuperHyperNotion, namely, Neutrosophic SuperHyperBipartite (SHG), is up in the illustration of the Table (13).

  Let a Neutrosophic SuperHyperBipartite (SHG) $S$ be a pair $S = (V, E)$. Assume SuperHyperPart $\{V_i\}_{i=1}^{7}$. Consider a Neutrosophic SuperHyperSet $V_s^{'} = \{\}$. Then $V_s^{'}$ is called Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ since the following expressions, terms and statements is called Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ criteria holds.

$$|( \sum_{V_i \in V_s{}' = \{\}} T(V_i),$$
$$\sum_{V_i \in V_s{}' = \{\}} I(V_i),$$
$$\sum_{V_i \in V_s{}' = \{\}} F(V_i))|$$
$$= (0, 0, 0) =$$
$$= \max_{V_s{}'' \subseteq V_{NSHG}} |\{ ( \sum_{V_i \in V_s{}''} T(V_i), \sum_{V_i \in V_s{}''} I(V_i), \sum_{V_i \in V_s{}''} F(V_i)) \mid$$
$$\forall V_i, V_j, V_k, V_l \subseteq V_s{}'' :$$
$$E^{STRONG}_{V_i,V_j,V_k,V_l} = \{V_iV_j, V_jV_k, V_kV_l, V_lV_i\}$$
$$\}|.$$

- On the Figure (35), the Neutrosophic SuperHyperNotion, namely, Neutrosophic SuperHyperBipartite (SHG), is up in the illustration of the Table (14).

  Let a Neutrosophic SuperHyperBipartite (SHG) $S$ be a pair $S = (V, E)$. Assume SuperHyperPart $\{V_i\}_{i=1}^{7}$. Consider a Neutrosophic SuperHyperSet $V_s^{'} = \{\}$. Then $V_s^{'}$ is called Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ since the following

**Table 14.** The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperBipartite

| $V_i$ | $(T_{V_i}, I_{V_i}, F_{V_i})$ | $E_i$ | $(T_{E_i}, I_{E_i}, F_{E_i})$ |
|---|---|---|---|
| $V_1$ | $(0.26, 0.26, 0.26)$ | $E_1$ | $(0.26, 0.26, 0.26)$ |
| $V_2$ | $(0.24, 0.24, 0.24)$ | - | - |
| $V_3$ | $(0.24, 0.24, 0.24)$ | - | - |
| $V_4$ | $(0.24, 0.24, 0.24)$ | $V_5$ | $(0.24, 0.24, 0.24)$ |
| $V_6$ | $(0.24, 0.24, 0.24)$ | $V_7$ | $(0.24, 0.24, 0.24)$ |

**Table 15.** The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperPath

| $V_i$ | $(T_{V_i}, I_{V_i}, F_{V_i})$ | $E_i$ | $(T_{E_i}, I_{E_i}, F_{E_i})$ |
|---|---|---|---|
| $V_1$ | $(0.26, 0.26, 0.26)$ | $E_1$ | $(0.26, 0.26, 0.26)$ |
| $V_2$ | $(0.26, 0.26, 0.26)$ | $E_2$ | $(0.26, 0.26, 0.26)$ |
| $V_3$ | $(0.26, 0.26, 0.26)$ | $E_{i_{i=3^7}}$ | $(0.26, 0.26, 0.26)$ |
| $V_4$ | $(0.26, 0.26, 0.26)$ | $V_5$ | $(0.26, 0.26, 0.26)$ |
| $V_6$ | $(0.26, 0.26, 0.26)$ | $V_7$ | $(0.26, 0.26, 0.26)$ |

expressions, terms and statements is called Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ criteria holds.

$$
\begin{aligned}
&|(\sum_{V_i \in {V_s}'=\{\}} T(V_i),\\
&\sum_{V_i \in {V_s}'=\{\}} I(V_i),\\
&\sum_{V_i \in {V_s}'=\{\}} F(V_i))|\\
&= (0, 0, 0) =\\
&= \max_{{{V_s}'}' \subseteq V_{NSHG}} |\{\ (\sum_{V_i \in {{V_s}'}'} T(V_i), \sum_{V_i \in {{V_s}'}'} I(V_i), \sum_{V_i \in {{V_s}'}'} F(V_i))\ |\\
&\ \forall V_i, V_j, V_k, V_l \subseteq {{V_s}'}' :\\
&E^{STRONG}_{V_i, V_j, V_k, V_l} = \{V_iV_j, V_jV_k, V_kV_l, V_lV_i\}\\
&\}|.
\end{aligned}
$$

**Example 4.3.** Assume a Neutrosophic SuperHyperPath (SHG) $S$ is a pair $S = (V, E)$ in the mentioned Neutrosophic Figures in every Neutrosophic items.

- On the Figure (36), the Neutrosophic SuperHyperNotion, namely, Neutrosophic SuperHyperPath (SHG), is up in the illustration of the Table (15).

  Let a Neutrosophic SuperHyperPath (SHG) $S$ be a pair $S = (V, E)$. Assume SuperHyperExternal $\{V_i\}_{i=1}^{7}$ and non-SuperHyperInternal $\{V_i\}_{i=8}^{34}$. Consider a Neutrosophic SuperHyperSet ${V_s}' = \{\}$. Then ${V_s}'$ is called Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ since the following expressions, terms and statements is called Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ criteria holds.

$$
\begin{aligned}
&|(\sum_{V_i \in {V_s}'=\{\}} T(V_i),\\
&\sum_{V_i \in {V_s}'=\{\}} I(V_i),
\end{aligned}
$$

**Table 16.** The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperPath

| $V_i$ | $(T_{V_i}, I_{V_i}, F_{V_i})$ | $E_i$ | $(T_{E_i}, I_{E_i}, F_{E_i})$ |
|---|---|---|---|
| $V_1$ | $(0.26, 0.26, 0.26)$ | $E_1$ | $(0.26, 0.26, 0.26)$ |
| $V_2$ | $(0.24, 0.24, 0.24)$ | $E_2$ | $(0.26, 0.26, 0.26)$ |
| $V_3$ | $(0.26, 0.26, 0.26)$ | $E_{i_{i=3}7}$ | $(0.26, 0.26, 0.26)$ |
| $V_4$ | $(0.26, 0.26, 0.26)$ | $V_5$ | $(0.26, 0.26, 0.26)$ |
| $V_6$ | $(0.26, 0.26, 0.26)$ | $V_7$ | $(0.26, 0.26, 0.26)$ |

$$\sum_{V_i \in V_s{}' = \{\}} F(V_i))|$$
$$= (0, 0, 0) =$$
$$= \max_{V_s{}'{}' \subseteq V_{NSHG}} |\{ \, ( \sum_{V_i \in V_s{}'{}'} T(V_i), \sum_{V_i \in V_s{}'{}'} I(V_i), \sum_{V_i \in V_s{}'{}'} F(V_i)) \mid$$
$$\forall V_i, V_j, V_k, V_l \subseteq V_s{}'{}' :$$
$$E^{STRONG}_{V_i,V_j,V_k,V_l} = \{V_iV_j, V_jV_k, V_kV_l, V_lV_i\}$$
$$\}|.$$

- On the Figure (37), the Neutrosophic SuperHyperNotion, namely, Neutrosophic SuperHyperPath (SHG), is up in the illustration of the Table (16).

  Let a Neutrosophic SuperHyperPath (SHG) $S$ be a pair $S = (V, E)$. Assume SuperHyperExternal $\{V_i\}_{i=1}^{7}$ and non-SuperHyperInternal $\{V_i\}_{i=8}^{34}$. Consider a Neutrosophic SuperHyperSet $V_s{}' = \{\}$. Then $V_s{}'$ is called Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ since the following expressions, terms and statements is called Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ criteria holds.

$$|( \sum_{V_i \in V_s{}' = \{\}} T(V_i),$$
$$\sum_{V_i \in V_s{}' = \{\}} I(V_i),$$
$$\sum_{V_i \in V_s{}' = \{\}} F(V_i))|$$
$$= (0, 0, 0) =$$
$$= \max_{V_s{}'{}' \subseteq V_{NSHG}} |\{ \, ( \sum_{V_i \in V_s{}'{}'} T(V_i), \sum_{V_i \in V_s{}'{}'} I(V_i), \sum_{V_i \in V_s{}'{}'} F(V_i)) \mid$$
$$\forall V_i, V_j, V_k, V_l \subseteq V_s{}'{}' :$$
$$E^{STRONG}_{V_i,V_j,V_k,V_l} = \{V_iV_j, V_jV_k, V_kV_l, V_lV_i\}$$
$$\}|.$$

- On the Figure (38), the Neutrosophic SuperHyperNotion, namely, Neutrosophic SuperHyperPath (SHG), is up in the illustration of the Table (17).

  Let a Neutrosophic SuperHyperPath (SHG) $S$ be a pair $S = (V, E)$. Assume SuperHyperExternal $\{V_i\}_{i=1}^{7}$ and non-SuperHyperInternal $\{V_i\}_{i=8}^{34}$. Consider a Neutrosophic SuperHyperSet $V_s{}' = \{\}$. Then $V_s{}'$ is called Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ since the following expressions, terms and statements is

**Table 17.** The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperPath

| $V_i$ | $(T_{V_i}, I_{V_i}, F_{V_i})$ | $E_i$ | $(T_{E_i}, I_{E_i}, F_{E_i})$ |
|---|---|---|---|
| $V_1$ | $(0.26, 0.26, 0.26)$ | $E_1$ | $(0.26, 0.26, 0.26)$ |
| $V_2$ | $(0.24, 0.24, 0.24)$ | $E_2$ | $(0.26, 0.26, 0.26)$ |
| $V_3$ | $(0.26, 0.26, 0.26)$ | $E_{i_{i=3}7}$ | $(0.26, 0.26, 0.26)$ |
| $V_4$ | $(0.26, 0.26, 0.26)$ | $V_5$ | $(0.26, 0.26, 0.26)$ |
| $V_6$ | $(0.26, 0.26, 0.26)$ | $V_7$ | $(0.26, 0.26, 0.26)$ |

**Table 18.** The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperPath

| $V_i$ | $(T_{V_i}, I_{V_i}, F_{V_i})$ | $E_i$ | $(T_{E_i}, I_{E_i}, F_{E_i})$ |
|---|---|---|---|
| $V_1$ | $(0.26, 0.26, 0.26)$ | $E_1$ | $(0.26, 0.26, 0.26)$ |
| $V_2$ | $(0.24, 0.24, 0.24)$ | $E_2$ | $(0.26, 0.26, 0.26)$ |
| $V_3$ | $(0.26, 0.26, 0.26)$ | $E_{i_{i=3}7}$ | $(0.26, 0.26, 0.26)$ |
| $V_4$ | $(0.24, 0.24, 0.24)$ | $V_5$ | $(0.26, 0.26, 0.26)$ |
| $V_6$ | $(0.26, 0.26, 0.26)$ | $V_7$ | $(0.26, 0.26, 0.26)$ |

called Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ criteria holds. 592

$$
\begin{aligned}
&|(\sum_{V_i \in V_s{}'=\{\}} T(V_i),\\
&\sum_{V_i \in V_s{}'=\{\}} I(V_i),\\
&\sum_{V_i \in V_s{}'=\{\}} F(V_i))|\\
&= (0,0,0) =\\
&= \max_{V_s{}'{}' \subseteq V_{NSHG}} |\{\ (\sum_{V_i \in V_s{}'{}'} T(V_i), \sum_{V_i \in V_s{}'{}'} I(V_i), \sum_{V_i \in V_s{}'{}'} F(V_i))\ |\\
&\forall V_i, V_j, V_k, V_l \subseteq V_s{}'{}' :\\
&E^{STRONG}_{V_i,V_j,V_k,V_l} = \{V_iV_j, V_jV_k, V_kV_l, V_lV_i\}\\
&\}|.
\end{aligned}
$$

- On the Figure (39), the Neutrosophic SuperHyperNotion, namely, Neutrosophic SuperHyperPath (SHG), is up in the illustration of the Table (18). 593 594

  Let a Neutrosophic SuperHyperPath (SHG) $S$ be a pair $S = (V, E)$. Assume SuperHyperExternal $\{V_i\}_{i=1}^{7}$ and non-SuperHyperInternal $\{V_i\}_{i=8}^{34}$. Consider a Neutrosophic SuperHyperSet $V_s{}' = \{\}$. Then $V_s{}'$ is called Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ since the following expressions, terms and statements is called Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ criteria holds. 595 596 597 598 599

$$
\begin{aligned}
&|(\sum_{V_i \in V_s{}'=\{\}} T(V_i),\\
&\sum_{V_i \in V_s{}'=\{\}} I(V_i),\\
&\sum_{V_i \in V_s{}'=\{\}} F(V_i))|
\end{aligned}
$$

**Table 19.** The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperStar

| $V_i$ | $(T_{V_i}, I_{V_i}, F_{V_i})$ | $E_i$ | $(T_{E_i}, I_{E_i}, F_{E_i})$ |
|---|---|---|---|
| $V_1$ | $(0.26, 0.26, 0.26)$ | $E_1$ | $(0.26, 0.26, 0.26)$ |
| $V_2$ | $(0.24, 0.24, 0.24)$ | $E_2$ | $(0.26, 0.26, 0.26)$ |
| $V_3$ | $(0.26, 0.26, 0.26)$ | $E_{i_{i=3}7}$ | $(0.26, 0.26, 0.26)$ |
| $V_4$ | $(0.24, 0.24, 0.24)$ | $V_5$ | $(0.26, 0.26, 0.26)$ |
| $V_6$ | $(0.26, 0.26, 0.26)$ | $V_7$ | $(0.26, 0.26, 0.26)$ |

$$= (0, 0, 0) =$$
$$= \max_{V_s{'}' \subseteq V_{NSHG}} |\{ ( \sum_{V_i \in V_s{'}'} T(V_i), \sum_{V_i \in V_s{'}'} I(V_i), \sum_{V_i \in V_s{'}'} F(V_i)) |$$
$$\forall V_i, V_j, V_k, V_l \subseteq V_s{'}' :$$
$$E^{STRONG}_{V_i,V_j,V_k,V_l} = \{V_iV_j, V_jV_k, V_kV_l, V_lV_i\}$$
$$\}|.$$

- On the Figure (40), the Neutrosophic SuperHyperNotion, namely, Neutrosophic SuperHyperPath (SHG), is up in the illustration of the Table (19).

  Let a Neutrosophic SuperHyperPath (SHG) $S$ be a pair $S = (V, E)$. Assume SuperHyperExternal $\{V_i\}_{i=1}^{7}$ and non-SuperHyperInternal $\{V_i\}_{i=8}^{34}$. Consider a Neutrosophic SuperHyperSet $V_s{'} = \{\}$. Then $V_s{'}$ is called Neutrosophic SuperHyperTriangle-free search since the following expressions, terms and statements is called Neutrosophic SuperHyperTriangle-free search criteria holds.

$$|( \sum_{V_i \in V_s{'} = \{\}} T(V_i),$$
$$\sum_{V_i \in V_s{'} = \{\}} I(V_i),$$
$$\sum_{V_i \in V_s{'} = \{\}} F(V_i))|$$
$$= (0, 0, 0) =$$
$$= \max_{V_s{'}' \subseteq V_{NSHG}} |\{ ( \sum_{V_i \in V_s{'}'} T(V_i), \sum_{V_i \in V_s{'}'} I(V_i), \sum_{V_i \in V_s{'}'} F(V_i)) |$$
$$\forall V_i, V_j, V_k, V_l \subseteq V_s{'}' :$$
$$E^{STRONG}_{V_i,V_j,V_k,V_l} = \{V_iV_j, V_jV_k, V_kV_l, V_lV_i\}$$
$$\}|.$$

- On the Figure (41), the Neutrosophic SuperHyperNotion, namely, Neutrosophic SuperHyperPath (SHG), is up in the illustration of the Table (20).

  Let a Neutrosophic SuperHyperPath (SHG) $S$ be a pair $S = (V, E)$. Assume SuperHyperExternal $\{V_i\}_{i=1}^{7}$ and non-SuperHyperInternal $\{V_i\}_{i=8}^{34}$. Consider a Neutrosophic SuperHyperSet $V_s{'} = \{\}$. Then $V_s{'}$ is called Neutrosophic SuperHyperTriangle-free search since the following expressions, terms and statements is called Neutrosophic SuperHyperTriangle-free search criteria holds.

$$|( \sum_{V_i \in V_s{'} = \{\}} T(V_i),$$

**Table 20.** The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperPath

| $V_i$ | $(T_{V_i}, I_{V_i}, F_{V_i})$ | $E_i$ | $(T_{E_i}, I_{E_i}, F_{E_i})$ |
|---|---|---|---|
| $V_1$ | $(0.26, 0.26, 0.26)$ | $E_1$ | $(0.26, 0.26, 0.26)$ |
| $V_2$ | $(0.24, 0.24, 0.24)$ | $E_2$ | $(0.26, 0.26, 0.26)$ |
| $V_3$ | $(0.26, 0.26, 0.26)$ | $E_{i_{i=3}7}$ | $(0.26, 0.26, 0.26)$ |
| $V_4$ | $(0.24, 0.24, 0.24)$ | $V_5$ | $(0.26, 0.26, 0.26)$ |
| $V_6$ | $(0.24, 0.24, 0.24)$ | $V_7$ | $(0.26, 0.26, 0.26)$ |

**Table 21.** The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperPath

| $V_i$ | $(T_{V_i}, I_{V_i}, F_{V_i})$ | $E_i$ | $(T_{E_i}, I_{E_i}, F_{E_i})$ |
|---|---|---|---|
| $V_1$ | $(0.26, 0.26, 0.26)$ | $E_1$ | $(0.26, 0.26, 0.26)$ |
| $V_2$ | $(0.24, 0.24, 0.24)$ | $E_2$ | $(0.26, 0.26, 0.26)$ |
| $V_3$ | $(0.26, 0.26, 0.26)$ | $E_{i_{i=3}7}$ | $(0.26, 0.26, 0.26)$ |
| $V_4$ | $(0.24, 0.24, 0.24)$ | $V_5$ | $(0.26, 0.26, 0.26)$ |
| $V_6$ | $(0.24, 0.24, 0.24)$ | $V_7$ | $(0.26, 0.26, 0.26)$ |

$$\sum_{V_i \in V_s{'}=\{\}} I(V_i),$$
$$\sum_{V_i \in V_s{'}=\{\}} F(V_i))|$$
$$= (0,0,0) =$$
$$= \max_{V_s{'}{'} \subseteq V_{NSHG}} |\{\ (\sum_{V_i \in V_s{'}{'}} T(V_i), \sum_{V_i \in V_s{'}{'}} I(V_i), \sum_{V_i \in V_s{'}{'}} F(V_i))\ |$$
$$\forall V_i, V_j, V_k, V_l \subseteq V_s{'}{'} :$$
$$E^{STRONG}_{V_i,V_j,V_k,V_l} = \{V_iV_j, V_jV_k, V_kV_l, V_lV_i\}$$
$$\}|.$$

- On the Figure (42), the Neutrosophic SuperHyperNotion, namely, Neutrosophic SuperHyperPath (SHG), is up in the illustration of the Table (21). 614 615

  Let a Neutrosophic SuperHyperPath (SHG) $S$ be a pair $S = (V, E)$. Assume SuperHyperExternal $\{V_i\}_{i=1}^{7}$ and non-SuperHyperInternal $\{V_i\}_{i=8}^{34}$. Consider a Neutrosophic SuperHyperSet $V_s{'} = \{\}$. Then $V_s{'}$ is called Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ since the following expressions, terms and statements is called Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ criteria holds. 616 617 618 619 620

$$|(\sum_{V_i \in V_s{'}=\{\}} T(V_i),$$
$$\sum_{V_i \in V_s{'}=\{\}} I(V_i),$$
$$\sum_{V_i \in V_s{'}=\{\}} F(V_i))|$$
$$= (0,0,0) =$$
$$= \max_{V_s{'}{'} \subseteq V_{NSHG}} |\{\ (\sum_{V_i \in V_s{'}{'}} T(V_i), \sum_{V_i \in V_s{'}{'}} I(V_i), \sum_{V_i \in V_s{'}{'}} F(V_i))\ |$$
$$\forall V_i, V_j, V_k, V_l \subseteq V_s{'}{'} :$$

$$E^{STRONG}_{V_i,V_j,V_k,V_l} = \{V_iV_j, V_jV_k, V_kV_l, V_lV_i\}$$
$$\}|.$$

## 5 Main Result

**Theorem 5.1.** *(Main Result and Main Theorem).*
*Assume every Neutrosophic SuperHyperBipartite has the letter $z$. The notion on the Neutrosophic SuperHyperBipartite and Neutrosophic SuperHyperPath coincide.*

*Proof.*

$(i)$. Let

$$P:\\ V_1^{P_1}, E_1,\\ V_1^{P_1}, E_2$$

$$P:\\ V_1^{P_1}, E_1,\\ V_1^{P_1}, E_2$$

be a longest path taken a connected Extreme SuperHyperBipartite $ESHM : (V, E)$. There's a new way to redefine as

$$V_i^{EXTERNAL} \sim V_j^{EXTERNAL} \equiv$$
$$\exists! E_z \in E_{ESHG:(V,E)},\ V_i^{EXTERNAL}, V_j^{EXTERNAL} \in E_z \equiv$$
$$\exists! E_z \in E_{ESHG:(V,E)},\ \{V_i^{EXTERNAL}, V_j^{EXTERNAL}\} \subseteq E_z.$$

The term "EXTERNAL" implies $|N(V_i^{EXTERNAL})| \geq |N(V_j)|$ where $V_j$ is corresponded to $V_i^{EXTERNAL}$ in the literatures of Neutrosophic SuperHyper$_{\text{Triangle-free search}}$. The latter is straightforward.

$(ii)$. Let

$$P:\\ V_i^{EXTERNAL}, E_i^*,\\ V_{i+1}^{EXTERNAL}, E_{i+1}^*$$

$$P:\\ V_i^{EXTERNAL}, E_i^*,\\ V_{i+1}^{EXTERNAL}, E_{i+1}^*$$

is a longest SuperHyper$_{\text{Triangle-free search}}$ taken from a connected Extreme SuperHyperPath $ESHC : (V, E)$. There's a new way to redefine as

$$V_i^{EXTERNAL} \sim V_j^{EXTERNAL} \equiv$$
$$\exists! E_z \in E_{ESHG:(V,E)},\ V_i^{EXTERNAL}, V_j^{EXTERNAL} \in E_z \equiv$$
$$\exists! E_z \in E_{ESHG:(V,E)},\ \{V_i^{EXTERNAL}, V_j^{EXTERNAL}\} \subseteq E_z.$$

The term "EXTERNAL" implies $|N(V_i^{EXTERNAL})| \geq |N(V_j)|$ where $V_j$ is corresponded to $V_i^{EXTERNAL}$ in the literatures of Neutrosophic SuperHyper$_{\text{Triangle-free}}$

$_{\text{search}}$. The latter is straightforward. Then there's at least one Neutrosophic SuperHyper$_{\text{Triangle-free search}}$. Thus the notion of quasi isn't up and the SuperHyperNotions based on Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ could be applied. The unique embedded Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ proposes some longest Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ excerpt from some representatives. The latter is straightforward. □

**Proposition 5.2.** *Let a Neutrosophic SuperHyperBipartite $ESHM$ be a pair $S = (V, E)$. Assume every Neutrosophic SuperHyperVertex has the letter $z$. The Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ set is as follows.*

$$\{V^{P_1}\}.$$

*Proof.* Let

$$\begin{aligned}&P:\\&V_1^{P_1}, E_1,\\&V_2^{P_1}, E_2\end{aligned}$$

$$\begin{aligned}&P:\\&V_1^{P_1}, E_1,\\&V_2^{P_1}, E_2\end{aligned}$$

be a longest path taken a connected Extreme SuperHyperBipartite $ESHM : (V, E)$. There's a new way to redefine as

$$\begin{aligned}&V_i^{EXTERNAL} \sim V_j^{EXTERNAL} \equiv\\&\exists! E_z \in E_{ESHG:(V,E)},\ V_i^{EXTERNAL}, V_j^{EXTERNAL} \in E_z \equiv\\&\exists! E_z \in E_{ESHG:(V,E)},\ \{V_i^{EXTERNAL}, V_j^{EXTERNAL}\} \subseteq E_z.\end{aligned}$$

The term "EXTERNAL" implies $|N(V_i^{EXTERNAL})| \geq |N(V_j)|$ where $V_j$ is corresponded to $V_i^{EXTERNAL}$ in the literatures of Neutrosophic SuperHyper$_{\text{Triangle-free search}}$. The latter is straightforward. □

**Proposition 5.3.** *Let a Neutrosophic SuperHyperBipartite $ESHM$ be a pair $S = (V, E)$. Assume every Neutrosophic SuperHyperVertex has the letter $z$. The Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ number is as follows.*

$$|V^{P_1}| \times 0.26.$$

*Proof.* Let

$$\begin{aligned}&P:\\&V_1^{P_1}, E_1,\\&V_1^{P_1}, E_2\end{aligned}$$

$$\begin{aligned}&P:\\&V_1^{P_i}, E_1,\\&V_1^{P_j}, E_2\end{aligned}$$

be a longest path taken a connected Extreme SuperHyperBipartite $ESHM : (V, E)$. There's a new way to redefine as

$$V_i^{EXTERNAL} \sim V_j^{EXTERNAL} \equiv$$

$$\exists! E_z \in E_{ESHG:(V,E)},\ V_i^{EXTERNAL}, V_j^{EXTERNAL} \in E_z \equiv$$
$$\exists! E_z \in E_{ESHG:(V,E)},\ \{V_i^{EXTERNAL}, V_j^{EXTERNAL}\} \subseteq E_z.$$

The term "EXTERNAL" implies $|N(V_i^{EXTERNAL})| \geq |N(V_j)|$ where $V_j$ is corresponded to $V_i^{EXTERNAL}$ in the literatures of Neutrosophic SuperHyper$_{\text{Triangle-free search}}$. The latter is straightforward. □

**Proposition 5.4.** *Let a Neutrosophic SuperHyperPath (ESHC) S be a pair $S = (V, E)$. Assume every Neutrosophic SuperHyperVertex has the letter $z$. The Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ set is as follows.*

$$\{ \\ V_i^{EXTERNAL}, \\ V_{i+1}^{EXTERNAL}, \ldots \\ \}$$

*Proof.* Let

$$P : \\ V_i^{EXTERNAL}, E_i^*, \\ V_{i+1}^{EXTERNAL}, E_{i+1}^*$$

$$P : \\ V_i^{EXTERNAL}, E_i^*, \\ V_{i+1}^{EXTERNAL}, E_{i+1}^*$$

is a longest SuperHyper$_{\text{Triangle-free search}}$ taken from a connected Extreme SuperHyperPath $ESHC : (V, E)$. There's a new way to redefine as

$$V_i^{EXTERNAL} \sim V_j^{EXTERNAL} \equiv$$
$$\exists! E_z \in E_{ESHG:(V,E)},\ V_i^{EXTERNAL}, V_j^{EXTERNAL} \in E_z \equiv$$
$$\exists! E_z \in E_{ESHG:(V,E)},\ \{V_i^{EXTERNAL}, V_j^{EXTERNAL}\} \subseteq E_z.$$

The term "EXTERNAL" implies $|N(V_i^{EXTERNAL})| \geq |N(V_j)|$ where $V_j$ is corresponded to $V_i^{EXTERNAL}$ in the literatures of Neutrosophic SuperHyper$_{\text{Triangle-free search}}$. The latter is straightforward. Then there's at least one Neutrosophic SuperHyper$_{\text{Triangle-free search}}$. Thus the notion of quasi isn't up and the SuperHyperNotions based on Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ could be applied. The unique embedded Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ proposes some longest Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ excerpt from some representatives. The latter is straightforward. □

**Proposition 5.5.** *Let a Neutrosophic SuperHyperPath (ESHC) S be a pair $S = (V, E)$. Assume every Neutrosophic SuperHyperVertex has the letter $z$. The Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ number is as follows.*

$$\frac{|V|}{2} \times 0.26.$$

*Proof.* Let

$$P :$$

$$V_i^{EXTERNAL}, E_i^*,$$
$$V_{i+1}^{EXTERNAL}, E_{i+1}^*$$

$$P:$$
$$V_i^{EXTERNAL}, E_i^*,$$
$$V_{i+1}^{EXTERNAL}, E_{i+1}^*$$

is a longest SuperHyper$_{\text{Triangle-free search}}$ taken from a connected Extreme SuperHyperPath $ESHC : (V, E)$. There's a new way to redefine as

$$\begin{aligned} &V_i^{EXTERNAL} \sim V_j^{EXTERNAL} \equiv \\ &\exists! E_z \in E_{ESHG:(V,E)},\ V_i^{EXTERNAL}, V_j^{EXTERNAL} \in E_z \equiv \\ &\exists! E_z \in E_{ESHG:(V,E)},\ \{V_i^{EXTERNAL}, V_j^{EXTERNAL}\} \subseteq E_z. \end{aligned}$$

The term "EXTERNAL" implies $|N(V_i^{EXTERNAL})| \geq |N(V_j)|$ where $V_j$ is corresponded to $V_i^{EXTERNAL}$ in the literatures of Neutrosophic SuperHyper$_{\text{Triangle-free search}}$. The latter is straightforward. Then there's at least one Neutrosophic SuperHyper$_{\text{Triangle-free search}}$. Thus the notion of quasi isn't up and the SuperHyperNotions based on Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ could be applied. The unique embedded Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ proposes some longest Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ excerpt from some representatives. The latter is straightforward. □

**Definition 5.6.** (Uniform Neutrosophic SuperHyperBipartite and Uniform Neutrosophic SuperHyperPath).

$(i)$. Let a Neutrosophic SuperHyperBipartite (SHG) $S$ be a pair $S = (V, E)$. Every pair of Neutrosophic SuperHyperVertices has the same maximum letter, i.e., Neutrosophic SuperHyperVertices mutually has the same maximum letter. A Neutrosophic SuperHyperBipartite (SHG) $S$ be a pair $S = (V, E)$ is called **Uniform Neutrosophic SuperHyperBipartite**.

$(ii)$. Let a Neutrosophic SuperHyperPath (SHG) $S$ be a pair $S = (V, E)$. Every pair of Neutrosophic SuperHyperVertices has the same maximum letter, i.e., Neutrosophic SuperHyperVertices mutually has the same maximum letter. A Neutrosophic SuperHyperPath (SHG) $S$ be a pair $S = (V, E)$ is called **Uniform Neutrosophic SuperHyperPath**.

**Proposition 5.7.** *Let an Uniform Neutrosophic SuperHyperBipartite $ESHM$ be a pair $S = (V, E)$. The Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ set is as follows.*

$$\{V^{P_1}\}.$$

*Proof.* Let

$$P:$$
$$V_1^{P_1}, E_1,$$
$$V_2^{P_1}, E_2$$

$$P:$$
$$V_1^{P_1}, E_1,$$
$$V_2^{P_1}, E_2$$

be a longest path taken a connected Extreme SuperHyperBipartite $ESHM : (V, E)$. There's a new way to redefine as

$$
\begin{aligned}
&V_i^{EXTERNAL} \sim V_j^{EXTERNAL} \equiv \\
&\exists! E_z \in E_{ESHG:(V,E)},\ V_i^{EXTERNAL}, V_j^{EXTERNAL} \in E_z \equiv \\
&\exists! E_z \in E_{ESHG:(V,E)},\ \{V_i^{EXTERNAL}, V_j^{EXTERNAL}\} \subseteq E_z.
\end{aligned}
$$

The term "EXTERNAL" implies $|N(V_i^{EXTERNAL})| \geq |N(V_j)|$ where $V_j$ is corresponded to $V_i^{EXTERNAL}$ in the literatures of Neutrosophic SuperHyper<sub></sub>Triangle-free search. The latter is straightforward. □

**Proposition 5.8.** *Let an Uniform Neutrosophic SuperHyperBipartite $ESHM$ be a pair $S = (V, E)$. The Neutrosophic SuperHyperTriangle-free search number is as follows.*

$$|V^{P_1}| \times 0.26.$$

*Proof.* Let

$$
\begin{aligned}
&P: \\
&V_1^{P_1}, E_1, \\
&V_1^{P_1}, E_2
\end{aligned}
$$

$$
\begin{aligned}
&P: \\
&V_1^{P_1}, E_1, \\
&V_1^{P_1}, E_2
\end{aligned}
$$

be a longest path taken a connected Extreme SuperHyperBipartite $ESHM : (V, E)$. There's a new way to redefine as

$$
\begin{aligned}
&V_i^{EXTERNAL} \sim V_j^{EXTERNAL} \equiv \\
&\exists! E_z \in E_{ESHG:(V,E)},\ V_i^{EXTERNAL}, V_j^{EXTERNAL} \in E_z \equiv \\
&\exists! E_z \in E_{ESHG:(V,E)},\ \{V_i^{EXTERNAL}, V_j^{EXTERNAL}\} \subseteq E_z.
\end{aligned}
$$

The term "EXTERNAL" implies $|N(V_i^{EXTERNAL})| \geq |N(V_j)|$ where $V_j$ is corresponded to $V_i^{EXTERNAL}$ in the literatures of Neutrosophic SuperHyperTriangle-free search. The latter is straightforward. □

**Proposition 5.9.** *Let an Uniform Neutrosophic SuperHyperPath (ESHC) $S$ be a pair $S = (V, E)$. The Neutrosophic SuperHyperTriangle-free search set is as follows.*

$$
\begin{aligned}
&\{ \\
&V_i^{EXTERNAL}, \\
&V_{i+1}^{EXTERNAL}, \ldots \\
&\}
\end{aligned}
$$

*Proof.* Let

$$
\begin{aligned}
&P: \\
&V_i^{EXTERNAL}, E_i^*, \\
&V_{i+1}^{EXTERNAL}, E_{i+1}^*
\end{aligned}
$$

$$\begin{aligned}&P:\\&V_i^{EXTERNAL},E_i^*,\\&V_{i+1}^{EXTERNAL},E_{i+1}^*\end{aligned}$$

is a longest SuperHyper$_{\text{Triangle-free search}}$ taken from a connected Extreme SuperHyperPath $ESHC:(V,E)$. There's a new way to redefine as

$$\begin{aligned}&V_i^{EXTERNAL}\sim V_j^{EXTERNAL}\equiv\\&\exists!E_z\in E_{ESHG:(V,E)},\ V_i^{EXTERNAL},V_j^{EXTERNAL}\in E_z\equiv\\&\exists!E_z\in E_{ESHG:(V,E)},\ \{V_i^{EXTERNAL},V_j^{EXTERNAL}\}\subseteq E_z.\end{aligned}$$

The term "EXTERNAL" implies $|N(V_i^{EXTERNAL})|\geq|N(V_j)|$ where $V_j$ is corresponded to $V_i^{EXTERNAL}$ in the literatures of Neutrosophic SuperHyper$_{\text{Triangle-free search}}$. The latter is straightforward. Then there's at least one Neutrosophic SuperHyper$_{\text{Triangle-free search}}$. Thus the notion of quasi isn't up and the SuperHyperNotions based on Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ could be applied. The unique embedded Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ proposes some longest Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ excerpt from some representatives. The latter is straightforward. □

**Proposition 5.10.** *Let an Uniform Neutrosophic SuperHyperPath (ESHC) $S$ be a pair $S=(V,E)$. The Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ number is as follows.*

$$\frac{|V|}{2}\times 0.26.$$

*Proof.* Let

$$\begin{aligned}&P:\\&V_i^{EXTERNAL},E_i^*,\\&V_{i+1}^{EXTERNAL},E_{i+1}^*\end{aligned}$$

$$\begin{aligned}&P:\\&V_i^{EXTERNAL},E_i^*,\\&V_{i+1}^{EXTERNAL},E_{i+1}^*\end{aligned}$$

is a longest SuperHyper$_{\text{Triangle-free search}}$ taken from a connected Extreme SuperHyperPath $ESHC:(V,E)$. There's a new way to redefine as

$$\begin{aligned}&V_i^{EXTERNAL}\sim V_j^{EXTERNAL}\equiv\\&\exists!E_z\in E_{ESHG:(V,E)},\ V_i^{EXTERNAL},V_j^{EXTERNAL}\in E_z\equiv\\&\exists!E_z\in E_{ESHG:(V,E)},\ \{V_i^{EXTERNAL},V_j^{EXTERNAL}\}\subseteq E_z.\end{aligned}$$

The term "EXTERNAL" implies $|N(V_i^{EXTERNAL})|\geq|N(V_j)|$ where $V_j$ is corresponded to $V_i^{EXTERNAL}$ in the literatures of Neutrosophic SuperHyper$_{\text{Triangle-free search}}$. The latter is straightforward. Then there's at least one Neutrosophic SuperHyper$_{\text{Triangle-free search}}$. Thus the notion of quasi isn't up and the SuperHyperNotions based on Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ could be applied. The unique embedded Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ proposes some longest Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ excerpt from some representatives. The latter is straightforward. □

**Proposition 5.11.** *(Neutrosophic SuperHyperBipartite and Neutrosophic SuperHyperPath).*

(i). *Let a Neutrosophic SuperHyperBipartite (SHG) $S$ be a pair $S = (V, E)$. Assume two Neutrosophic SuperHyperVertices, from different SuperHyperParts, have the maximum letter. Then the Neutrosophic SuperHyperVertices don't have the same maximum letter, are in every Neutrosophic SuperHyper*<sub></sub>Triangle-free search *set.*

(ii). *Let a Neutrosophic SuperHyperPath (SHG) $S$ be a pair $S = (V, E)$. Assume every Neutrosophic EXTERNAL SuperHyperVertices with distance two have the maximum letter. Then the Neutrosophic SuperHyperVertices don't have the same maximum letter, are in every Neutrosophic SuperHyper*Triangle-free search *set.*

*Proof.*

(i). Let

$$\begin{aligned}&P:\\&V_1^{P_i}, E_1,\\&V_1^{P_j}, E_2\end{aligned}$$

$$\begin{aligned}&P:\\&V_1^{P_i}, E_1,\\&V_1^{P_j}, E_2\end{aligned}$$

be a longest path taken a connected Extreme SuperHyperBipartite $ESHM : (V, E)$. There's a new way to redefine as

$$\begin{aligned}&V_i^{EXTERNAL} \sim V_j^{EXTERNAL} \equiv\\&\exists! E_z \in E_{ESHG:(V,E)},\ V_i^{EXTERNAL}, V_j^{EXTERNAL} \in E_z \equiv\\&\exists! E_z \in E_{ESHG:(V,E)},\ \{V_i^{EXTERNAL}, V_j^{EXTERNAL}\} \subseteq E_z.\end{aligned}$$

The term "EXTERNAL" implies $|N(V_i^{EXTERNAL})| \geq |N(V_j)|$ where $V_j$ is corresponded to $V_i^{EXTERNAL}$ in the literatures of Neutrosophic SuperHyperTriangle-free search. The latter is straightforward.

(ii). Let

$$\begin{aligned}&P:\\&V_i^{EXTERNAL}, E_i^*,\\&V_{i+1}^{EXTERNAL}, E_{i+1}^*\end{aligned}$$

$$\begin{aligned}&P:\\&V_i^{EXTERNAL}, E_i^*,\\&V_{i+1}^{EXTERNAL}, E_{i+1}^*\end{aligned}$$

is a longest SuperHyperTriangle-free search taken from a connected Extreme SuperHyperPath $ESHC : (V, E)$. There's a new way to redefine as

$$\begin{aligned}&V_i^{EXTERNAL} \sim V_j^{EXTERNAL} \equiv\\&\exists! E_z \in E_{ESHG:(V,E)},\ V_i^{EXTERNAL}, V_j^{EXTERNAL} \in E_z \equiv\end{aligned}$$

$$\exists! E_z \in E_{ESHG:(V,E)},\ \{V_i^{EXTERNAL}, V_j^{EXTERNAL}\} \subseteq E_z.$$

The term "EXTERNAL" implies $|N(V_i^{EXTERNAL})| \geq |N(V_j)|$ where $V_j$ is corresponded to $V_i^{EXTERNAL}$ in the literatures of Neutrosophic SuperHyper$_{\text{Triangle-free search}}$. The latter is straightforward. Then there's at least one Neutrosophic SuperHyper$_{\text{Triangle-free search}}$. Thus the notion of quasi isn't up and the SuperHyperNotions based on Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ could be applied. The unique embedded Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ proposes some longest Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ excerpt from some representatives. The latter is straightforward. □

**Proposition 5.12.** *(Embedded Neutrosophic SuperHyperBipartite and Embedded Neutrosophic SuperHyperPath).*

*(i). Let a Neutrosophic SuperHyperBipartite (SHG) $S$ be a pair $S = (V, E)$. Then two Neutrosophic SuperHyperVertices, from different SuperHyperParts, is in every Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ set.*

*(ii). Let a Neutrosophic SuperHyperPath (SHG) $S$ be a pair $S = (V, E)$. Then every Neutrosophic EXTERNAL SuperHyperVertices with distance two is in every Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ set.*

*Proof.*

(i). Let

$$\begin{aligned}&P:\\&V_1^{P_i}, E_1,\\&V_1^{P_j}, E_2\end{aligned}$$

$$\begin{aligned}&P:\\&V_1^{P_i}, E_1,\\&V_1^{P_j}, E_2\end{aligned}$$

be a longest path taken a connected Extreme SuperHyperBipartite $ESHM : (V, E)$. There's a new way to redefine as

$$\begin{aligned}&V_i^{EXTERNAL} \sim V_j^{EXTERNAL} \equiv\\&\exists! E_z \in E_{ESHG:(V,E)},\ V_i^{EXTERNAL}, V_j^{EXTERNAL} \in E_z \equiv\\&\exists! E_z \in E_{ESHG:(V,E)},\ \{V_i^{EXTERNAL}, V_j^{EXTERNAL}\} \subseteq E_z.\end{aligned}$$

The term "EXTERNAL" implies $|N(V_i^{EXTERNAL})| \geq |N(V_j)|$ where $V_j$ is corresponded to $V_i^{EXTERNAL}$ in the literatures of Neutrosophic SuperHyper$_{\text{Triangle-free search}}$. The latter is straightforward.

(ii). Let

$$\begin{aligned}&P:\\&V_i^{EXTERNAL}, E_i^*,\\&V_{i+1}^{EXTERNAL}, E_{i+1}^*\end{aligned}$$

$$P:$$

$$V_i^{EXTERNAL}, E_i^*,$$
$$V_{i+1}^{EXTERNAL}, E_{i+1}^*$$

is a longest SuperHyper$_{\text{Triangle-free search}}$ taken from a connected Extreme SuperHyperPath $ESHC : (V, E)$. There's a new way to redefine as

$$\begin{aligned}
&V_i^{EXTERNAL} \sim V_j^{EXTERNAL} \equiv \\
&\exists! E_z \in E_{ESHG:(V,E)},\ V_i^{EXTERNAL}, V_j^{EXTERNAL} \in E_z \equiv \\
&\exists! E_z \in E_{ESHG:(V,E)},\ \{V_i^{EXTERNAL}, V_j^{EXTERNAL}\} \subseteq E_z.
\end{aligned}$$

The term "EXTERNAL" implies $|N(V_i^{EXTERNAL})| \geq |N(V_j)|$ where $V_j$ is corresponded to $V_i^{EXTERNAL}$ in the literatures of Neutrosophic SuperHyper$_{\text{Triangle-free search}}$. The latter is straightforward. Then there's at least one Neutrosophic SuperHyper$_{\text{Triangle-free search}}$. Thus the notion of quasi isn't up and the SuperHyperNotions based on Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ could be applied. The unique embedded Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ proposes some longest Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ excerpt from some representatives. The latter is straightforward. □

# 6 Neutrosophic Applications in Cancer's Neutrosophic Recognition

The cancer is the Neutrosophic disease but the Neutrosophic model is going to figure out what's going on this Neutrosophic phenomenon. The special Neutrosophic case of this Neutrosophic disease is considered and as the consequences of the model, some parameters are used. The cells are under attack of this disease but the moves of the cancer in the special region are the matter of mind. The Neutrosophic recognition of the cancer could help to find some Neutrosophic treatments for this Neutrosophic disease.

In the following, some Neutrosophic steps are Neutrosophic devised on this disease.

**Step 1. (Neutrosophic Definition)** The Neutrosophic recognition of the cancer in the long-term Neutrosophic function.

**Step 2. (Neutrosophic Issue)** The specific region has been assigned by the Neutrosophic model [it's called Neutrosophic SuperHyperGraph] and the long Neutrosophic cycle of the move from the cancer is identified by this research. Sometimes the move of the cancer hasn't be easily identified since there are some determinacy, indeterminacy and neutrality about the moves and the effects of the cancer on that region; this event leads us to choose another model [it's said to be Neutrosophic SuperHyperGraph] to have convenient perception on what's happened and what's done.

**Step 3. (Neutrosophic Model)** There are some specific Neutrosophic models, which are well-known and they've got the names, and some general Neutrosophic models. The moves and the Neutrosophic traces of the cancer on the complex tracks and between complicated groups of cells could be fantasized by a Neutrosophic SuperHyperPath(-/SuperHyper$_{\text{Triangle-free search}}$, SuperHyperStar, SuperHyperBipartite, SuperHyperMultipartite, SuperHyperWheel). The aim is to find either the Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ or the Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ in those Neutrosophic Neutrosophic SuperHyperModels.

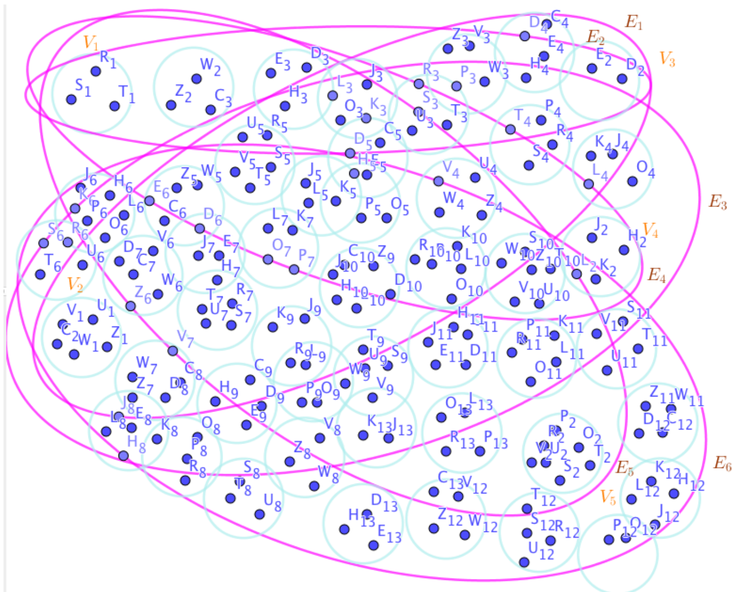


**Figure 43.** a Neutrosophic SuperHyperBipartite Associated to the Notions of Neutrosophic SuperHyper$_{\text{Triangle-free search}}$

**Table 22.** The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperBipartite

| | |
|---|---|
| The Values of The Vertices | The Number of Position in Alphabet |
| The Values of The SuperVertices | The maximum Values of Its Vertices |
| The Values of The Edges | The maximum Values of Its Vertices |
| The Values of The HyperEdges | The maximum Values of Its Vertices |
| The Values of The SuperHyperEdges | The maximum Values of Its Endpoints |

# 7 Case 1: The Initial Neutrosophic Steps Toward Neutrosophic SuperHyperBipartite as Neutrosophic SuperHyperModel

**Step 4. (Neutrosophic Solution)** In the Neutrosophic Figure (43), the Neutrosophic SuperHyperBipartite is Neutrosophic highlighted and Neutrosophic featured.
By using the Neutrosophic Figure (43) and the Table (22), the Neutrosophic SuperHyperBipartite is obtained.
The obtained Neutrosophic SuperHyperSet, by the Neutrosophic Algorithm in previous Neutrosophic result, of the Neutrosophic SuperHyperVertices of the connected Neutrosophic SuperHyperBipartite $ESHB : (V, E)$, in the Neutrosophic SuperHyperModel (43), is the Neutrosophic SuperHyper$_{\text{Triangle-free search}}$.

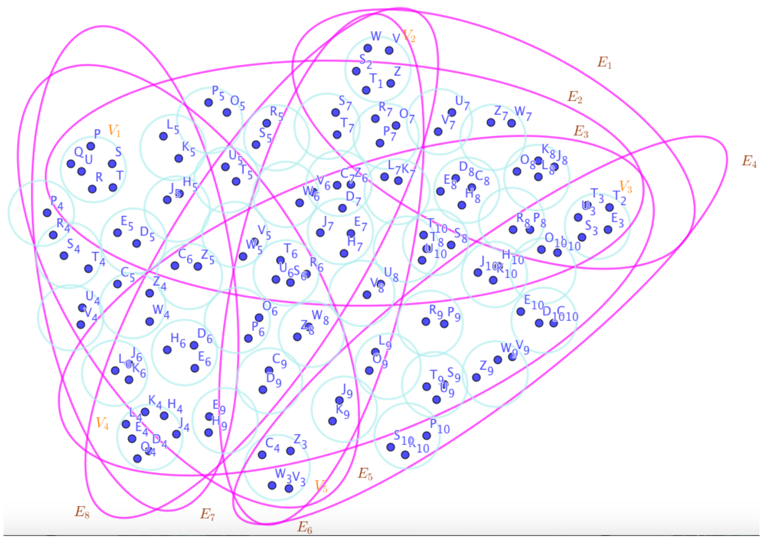


**Figure 44.** a Neutrosophic SuperHyperMultipartite Associated to the Notions of Neutrosophic SuperHyper$_{\text{Triangle-free search}}$

**Table 23.** The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperMultipartite

| | |
|---|---|
| The Values of The Vertices | The Number of Position in Alphabet |
| The Values of The SuperVertices | The maximum Values of Its Vertices |
| The Values of The Edges | The maximum Values of Its Vertices |
| The Values of The HyperEdges | The maximum Values of Its Vertices |
| The Values of The SuperHyperEdges | The maximum Values of Its Endpoints |

## 8 Case 2: The Increasing Neutrosophic Steps Toward Neutrosophic SuperHyperMultipartite as Neutrosophic SuperHyperModel

**Step 4. (Neutrosophic Solution)** In the Neutrosophic Figure (44), the Neutrosophic SuperHyperMultipartite is Neutrosophic highlighted and Neutrosophic featured.
By using the Neutrosophic Figure (44) and the Table (23), the Neutrosophic SuperHyperMultipartite is obtained.
The obtained Neutrosophic SuperHyperSet, by the Neutrosophic Algorithm in previous result, of the Neutrosophic SuperHyperVertices of the connected Neutrosophic SuperHyperMultipartite $ESHM : (V, E)$, in the Neutrosophic SuperHyperModel (44), is the Neutrosophic SuperHyper$_{\text{Triangle-free search}}$.

## 9 Wondering Open Problems But As The Directions To Forming The Motivations

In what follows, some "problems" and some "questions" are proposed.

The SuperHyper$_{\text{Triangle-free search}}$ and the Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ are defined on a real-world application, titled "Cancer's Recognitions".

**Question 9.1.** *Which the else SuperHyperModels could be defined based on Cancer's* *recognitions?*

**Question 9.2.** *Are there some SuperHyperNotions related to SuperHyper$_{\text{Triangle-free search}}$ and the Neutrosophic SuperHyper$_{\text{Triangle-free search}}$?*

**Question 9.3.** *Are there some Algorithms to be defined on the SuperHyperModels to compute them?*

**Question 9.4.** *Which the SuperHyperNotions are related to beyond the SuperHyper$_{\text{Triangle-free search}}$ and the Neutrosophic SuperHyper$_{\text{Triangle-free search}}$?*

**Problem 9.5.** *The SuperHyper$_{\text{Triangle-free search}}$ and the Neutrosophic SuperHyper$_{\text{Triangle-free search}}$ do a SuperHyperModel for the Cancer's recognitions and they're based on SuperHyper$_{\text{Triangle-free search}}$, are there else?*

**Problem 9.6.** *Which the fundamental SuperHyperNumbers are related to these SuperHyperNumbers types-results?*

**Problem 9.7.** *What's the independent research based on Cancer's recognitions concerning the multiple types of SuperHyperNotions?*

## 10 Conclusion and Closing Remarks

In this section, closing and concluding remarks are presented. The drawbacks of this scientific research are shown. Some advantages and disadvantages of this scientific research are highlighted.

This scientific research uses some approaches to further understand the Neutrosophic SuperHyperGraphs. In this effort, two SuperHyperNotions are defined on the Triangle-free search. For this reason, in the second definition, the original definition of the Neutrosophic SuperHyperGraph is redefined on the position of the alphabets. Based on the new Neutrosophic SuperHyperGraph definition, the new SuperHyperNotion, Neutrosophic Triangle-free search, finds a suitable background to implement some results on. Some SuperHyperClasses and some Neutrosophic SuperHyperClasses are the subjects of this scientific research on modeling areas that are subject to cancer attacks in order to recognize this disease as mentioned under the title "Cancer Diagnosis". To formalize the SuperHyperNotion, Triangle-free search, SuperHyperClasses and new SuperHyperClasses instances are introduced. Some general results are summarized in the Triangle-free search and Neutrosophic Triangle-free search sections. Clarifications, examples, and literature reviews go all the way. In this scientific research, the literature review has met the lines containing concepts and results. SuperHyperGraph and Neutrosophic SuperHyperGraph are super-hypermodels in "cancer diagnosis" and both are the foundation of the background of this scientific research. Sometimes cancer has occurred in an area full of cells, cell groups, and embedded styles. In this section, SuperHyperModel proposes SuperHyperNotions, formally called "Triangle-free search", based on the connections of Cancer's movements in the longest and strongest styles with the formation of design and architecture, in terms of terms and whispering words. . The "SuperHyper" prefix refers to the topic of embedded styles to explore the background of SuperHyperNotions. In the table (24), the advantages and ways of this scientific research are specified, pointed out and expressed.

## 11 Background

There are some scientific researches covering the topic of this scientific research. In what follows, there are some discussion and literature reviews about them.

**Table 24.** A look at this scientific research and beyond

| Advantages | Limitations |
|---|---|
| 1. Redefining the Neutrosophic SuperHyperGraph | 1. General Results |
| 2. Triangle-free search | |
| 3. Neutrosophic Triangle-free search | 2. Other SuperHyperNumbers |
| 4. modeling cancer diagnoses | |
| 5. SuperHyperClasses | 3. SuperHyperFamilies |

The seminal paper and groundbreaking article is titled "*New Ideas In Recognition of Cancer And Neutrosophic SuperHyperGraph As Hyper Tool On Super Toot*" in **Ref.** [1] by Henry Garrett (2023). In this research article, a novel approach is implemented on SuperHyperGraph and neutrosophic SuperHyperGraph based on general forms with introducing used neutrosophic classes of neutrosophic SuperHyperGraph. It's published in prestigious and fancy journal is entitled "*Current Trends in Mass Communication (CTMC)*" with ISO abbreviation "*Curr Trends Mass Comm*" in volume 2 and issue 1 with pages 32-55.

The seminal paper and groundbreaking article is titled "*Some Super Hyper Degrees and Co-Super Hyper Degrees on Neutrosophic Super Hyper Graphs And Super Hyper Graphs Alongside Applications in Cancer's Treatments*" in **Ref.** [2] by Henry Garrett (2023). In this research article, a novel approach is implemented on SuperHyperGraph and neutrosophic SuperHyperGraph based on fundamental notions and using vital tools in Cancer's Treatments. It's published in prestigious and fancy journal is entitled "*Journal of Mathematical Techniques and Computational Mathematics(JMTCM)*" with ISO abbreviation "*J Math Techniques Comput Math*" in volume 2 and issue 1 with pages 35-47. The research article studies deeply with choosing directly neutrosophic SuperHyperGraph and SuperHyperGraph. It's the breakthrough toward independent results based on initial background and fundamental SuperHyperNumbers.

The seminal paper and groundbreaking article is titled "*A Research on Cancer's Recognition and Neutrosophic Super Hypergraph by Eulerian Super Hyper Cycles and Hamiltonian Sets as Hyper Covering Versus Super separations*" in **Ref.** [3] by Henry Garrett (2023). In this research article, a novel approach is implemented on SuperHyperGraph and neutrosophic SuperHyperGraph based on fundamental notions and using vital tools in Cancer's Recognition. It's published in prestigious and fancy journal is entitled "*Journal of Mathematical Techniques and Computational Mathematics(JMTCM)*" with ISO abbreviation "*J Math Techniques Comput Math*" in volume 2 and issue 3 with pages 136-148. The research article studies deeply with choosing directly neutrosophic SuperHyperGraph and SuperHyperGraph. It's the breakthrough toward independent results based on initial background and fundamental SuperHyperNumbers.

The seminal paper and groundbreaking article is titled "*Neutrosophic 1-Failed SuperHyperForcing in the SuperHyperFunction to Use Neutrosophic SuperHyperGraphs on Cancer's Neutrosophic Recognition and Beyond*" in **Ref.** [4] by Henry Garrett (2023). In this research article, a novel approach is implemented on SuperHyperGraph and neutrosophic SuperHyperGraph based on fundamental SuperHyperNumber and using neutrosophic SuperHyperClasses of neutrosophic SuperHyperGraph. It's published in prestigious and fancy journal is entitled "*Journal of Mathematical Techniques and Computational Mathematics(JMTCM)*" with ISO abbreviation "*J Math Techniques Comput Math*" in volume 2 and issue 6 with pages 221-307. The research article studies deeply with choosing directly neutrosophic SuperHyperGraph and SuperHyperGraph. It's the breakthrough toward independent results based on initial background and fundamental SuperHyperNumbers. The seminal paper and groundbreaking article is titled "*New Ideas in Recognition of Cancer and Neutrosophic SuperHyperGraph by Initial Eulerian-Path-Cut as Hyper Initial Eulogy on Super Initial EULA*" in **Ref.** [5] by Henry Garrett (2023). In this research article, a novel approach is implemented on SuperHyperGraph and neutrosophic SuperHyperGraph based on fundamental SuperHyperNumber and using neutrosophic SuperHyperClasses of neutrosophic SuperHyperGraph. It's published in prestigious and fancy journal is entitled "*International Journal of Pure and Applied Mathematics Research*" with ISO abbreviation "*IJPAMR*" in volume 3 and issue 2 with pages 60-88 and doi: 10.51483/IJPAMR.3.2.2023.60-88. The seminal paper and groundbreaking article is titled "*New Ideas in Recognition of Cancer and Neutrosophic Super Hyper Graph by Eulerian-Path-Cut as Hyper Eulogy-Path-Cut on Super EULA-Path-Cut*" in **Ref.** [6] by Henry Garrett (2023). In this research article, a novel approach is implemented on SuperHyperGraph and neutrosophic SuperHyperGraph based on fundamental SuperHyperNumber and using neutrosophic SuperHyperClasses of neutrosophic SuperHyperGraph. It's published in prestigious and fancy journal is entitled "*International Journal of Pure and Applied Mathematics Research*" with ISO abbreviation "*IJPAMR*" in volume 3 and issue 2 with pages 102-124 and doi: 10.51483/IJPAMR.3.2.2023.102-124. The research article studies deeply with choosing directly neutrosophic SuperHyperGraph and SuperHyperGraph. It's the breakthrough toward independent results based on initial background and fundamental SuperHyperNumbers. The seminal paper and groundbreaking article is titled "*Super Hyper Dominating and Super Hyper Resolving on Neutrosophic Super Hyper Graphs and Their Directions in Game Theory and Neutrosophic Super Hyper Classes*" in **Ref.** [7] by Henry Garrett (2022). In this research article, a novel approach is implemented on SuperHyperGraph and neutrosophic SuperHyperGraph based on fundamental SuperHyperNumber and using neutrosophic SuperHyperClasses of neutrosophic SuperHyperGraph. It's published in prestigious and fancy journal is entitled "*Journal of Mathematical Techniques and Computational Mathematics(JMTCM)*" with ISO abbreviation "*J Math Techniques Comput Math*" in volume 1 and issue 3 with pages 242-263. The research article studies deeply with choosing directly neutrosophic SuperHyperGraph and SuperHyperGraph. It's the breakthrough toward independent results based on initial background and fundamental SuperHyperNumbers. The seminal paper and groundbreaking article is titled "*neutrosophic co-degree and neutrosophic degree alongside chromatic numbers in the setting of some classes related to neutrosophic hypergraphs*" in **Ref.** [8] by Henry Garrett (2023). In this research article, a novel approach is implemented on SuperHyperGraph and neutrosophic SuperHyperGraph based on general forms without using neutrosophic classes of neutrosophic SuperHyperGraph. It's published in prestigious and fancy journal is entitled "*Journal of Current Trends in Computer Science Research (JCTCSR)*" with ISO abbreviation "*J Curr Trends Comp Sci Res*" in volume 2 and issue 1 with pages 16-24. The research article studies deeply with choosing neutrosophic hypergraphs instead of neutrosophic SuperHyperGraph. It's the breakthrough toward independent results based on initial background. The research article studies deeply with choosing neutrosophic hypergraphs instead of neutrosophic SuperHyperGraph. It's the breakthrough toward independent results based on initial background. In some articles are titled "*0039 — Closing Numbers and Super-Closing Numbers as (Dual)Resolving and (Dual)Coloring alongside (Dual)Dominating in (Neutrosophic)n-SuperHyperGraph*" in **Ref.** [9] by Henry Garrett (2022), "*0049 — (Failed)1-Zero-Forcing Number in Neutrosophic Graphs*" in **Ref.** [10] by Henry Garrett (2022), "*Extreme SuperHyperClique as the Firm Scheme of Confrontation under Cancer's Recognition as the Model in The Setting of*

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Some scientific studies and scientific researches about neutrosophic graphs, are proposed as book in **Ref.** [456] by Henry Garrett (2023) which is indexed by Google Scholar and has more than 5679 readers in Scribd. It's titled "*Beyond Neutrosophic Graphs*" and published by Dr. Henry Garrett. This research book covers different types of notions and settings in neutrosophic graph theory and neutrosophic SuperHyperGraph theory.

Also, some scientific studies and scientific researches about neutrosophic graphs, are proposed as book in **Ref.** [457] by Henry Garrett (2023) which is indexed by Google Scholar and has more than 6667 readers in Scribd. It's titled "*Neutrosophic Duality*" and published by Dr. Henry Garrett. This research book presents different types of notions SuperHyperResolving and SuperHyperDominating in the setting of duality in neutrosophic graph theory and neutrosophic SuperHyperGraph theory. This research book has scrutiny on the complement of the intended set and the intended set, simultaneously. It's smart to consider a set but acting on its complement that what's done in this research book which is popular in the terms of high readers in Scribd.

See the seminal scientific researches [1–3]. The formalization of the notions on the framework of notions in SuperHyperGraphs, Neutrosophic notions in SuperHyperGraphs theory, and (Neutrosophic) SuperHyperGraphs theory at [4–303] alongside scientific research books at [304–455]. Two popular scientific research books in Scribd ,in the terms of high readers, 5679 and 6667 respectively, on neutrosophic science is on [456, 457].

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