Total Domination Number and Chromatic Number of a Fuzzy Graph

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ABSTRACT

A subset S of V is called a domination set in G if every vertex in V-S is adjacent to at least one vertex in S. A dominating set is said to be Puzzy Total Dominating set if every vertex in V is adjacent to at least one vertex in S. Minimum cardinality taken over all total dominating set is called as fuzzy total domination number and is denoted by γ_{f2} (G). The minimum number of colours required to colour all the vertices such that adjacent vertices do not receive the same colour is the graph of G is called a clique of G. In this paper we find an upper bound for the sum of the fuzzy total domination and chromatic number in fuzzy graphs and characterize the corresponding extremal fuzzy graphs.

General Terms

G(μ,σ) be simple undirected fuzzy graph

Keywords

Fuzzy Total Domination Number, Chromatic Number, Clique, Fuzzy Graphs

1. INTRODUCTION

The study of dominating sets in graphs was begun by Ore and Berge, the domination number, total domination number are introduced by Cockayne and Hedetniemi. A Mathematical framework to describe the phenomena of uncertainty in real life situation is first suggested by L.A.Zadeh in 1965.

Research on the theory of fuzzy sets has been witnessing an exponential growth; both within mathematics and in its applications. This ranges from traditional mathematical subjects like logic, topology, algebra, analysis etc. consequently fuzzy set theory has emerged as potential nees of interdisciplinary research and fuzzy graph theory is of recent interest.

The fuzzy definition of fuzzy graphs was proposed by fauffmann [4], from the fuzzy relations introduced by Zadeh [9]. Although Rosenfeld[5] introduced another elaborated definition, including fuzzy vertex and fuzzy edges. Several fuzzy analogs of graph theoretic concepts such as paths, cycles connectedness etc. The concept of domination in fuzzy graphs was investigated by A.Somasundram, S.Somasundram [6], A. Somasundram presented the concepts of independent domination, total domination, connected domination and domination in cartesian product and composition of fuzzy graphs([7][8]).

Several authors have studied the problem of obtaining an upper bound for the sum of a domination parameter and a graph theoretic parameter and characterized the corresponding extremal graphs. In [10], Paulraj Joseph J and Arumugam S proved that $\gamma+k\leq p$. In[9], Paulraj Joseph J and Arumugam S proved that $\gamma_+(G)+\chi\leq p+1$. They also characterized the class of graphs for which the upper bound is attained. They also proved similar results for γ and γ_c . In[14]. Mahadevan G introduced the concept the complementary perfect domination number γ_{cp} and proved that $\gamma_{cp}(G) + \gamma \leq 2n-2$, and characterized the corresponding external graphs. In[15]. S.Vimala and J.S.Sathya proved that $\gamma_c(G) + \gamma_c(G) + 2n-5$. They also characterised the class of graphs for which the upper bound is attained. In this paper we obtain sharp upper bound for the sum of the fuzzy total domination number and chromatic number and characterize the corresponding external fuzzy graphs.

2. PRELIMINARIES

If X is collection of objects denoted generically by x, then a Fuzzy set A in X is a set of ordered pairs: $\overline{A} = \{(x, \mu_{\overline{A}}(x))\}$ $X \in X\}, \mu_{\overline{A}}(x)$ is called the membership function of x in \overline{A} that maps X to the membership space M (when M contains only the two points 0 and 1). Let E be the (crisp) set of nodes. A fuzzy graph is then defined by, $\overline{G}(x_i, x_j) = \{(x_i, x_j), \mu_{\overline{G}}(x_i, x_j)/(x_i, x_j) \in E \times E\}$. $\overline{H}(x_i, x_j)$ is a Fuzzy Sub graph of $\overline{G}(x_i, x_j)$ if $\mu_{\overline{H}}(x_i, x_j) \leq \mu_{\overline{G}}(x_i, x_j)$ $V(x_i, x_j) \in E \times E$, $\overline{H}(x_i, x_j)$ is a spanning fuzzy sub graph of $\overline{G}(x_i, x_j)$ if the node set of $\overline{H}(x_i, x_j)$ and $\overline{G}(x_i, x_j)$ are equal, that is if they differ only in their arc weights.

Let G(y,e) be simple undirected fuzzy graph. The degree of any vertex u in G is the number of edges incident with u and is denoted by d(u). The minimum and maximum degree of a vertex is denoted by $\delta(G)$ and $\delta(G)$ respectively, P_u denotes the path on a vertices. The vertex connectivity u(G) of a graph G is the minimum number of vertices whose removal results in a disconnected graph. The chromatic number g is defined to be the minimum number of colours required to colour all the vertices such that adjacent vertices do not receive the same colour. For any graph G a complete sub-graph of G is called a clique of G. The number of vertices in a largest clique of G is called the clique number of G.

A subset S of V is called a dominating set in G, if every vertex in V-S is adjacent to at least one vertex is S. The minimum cardinality taken over all minimal dominating sets in G is called the domination number of G and is denoted by y. A dominating set S is said to be fuzzy total dominating set if every vertex in V is adjacent to at least one vertex in S. Minimum cardinality taken over all total dominating set is called as fuzzy total domination number and is denoted by y_Y (G). We use the following previous results.

2.1 Theorem: [1]: For any connected graph G, $\gamma_t(G) \le n$

Theorem: [2]: For any connected graph G, χ(G)≤ Δ(G)+1.

Journal For Fuzzy Graph Theory Domination Number

Siti Nurul Fitriah Mohamad,Roslan Hasni,Florentin Smarandache

Journal For Fuzzy Graph Theory Domination Number:

Review of Domination number and Chromatic number in Turiyam Neutrosophic and Plithogenic Graphs Takaaki Fujita, Florentin Smarandache, Graph theory is the study of networks comprising nodes vertices and their connections edges It is instrumental in analyzing the structure pathways and properties of these networks. This paper explores two significant problems in graph theory the domination number and the chromatic number. The domination number represents the smallest subset of vertices such that every vertex in the graph is either included in this subset or adjacent to at least one vertex within it The chromatic number on the other hand refers to the minimum number of colors needed to color a graph such that no two adjacent vertices share the same color Additionally the paper introduces and examines uncertain graph models including Fuzzy Intuitionistic Fuzzy Neutrosophic Turiyam Neutrosophic and Plithogenic graphs It further investigates their respective domination and chromatic numbers providing insights into these advanced graph concepts **Domination Theory And Beyond** Dr. Henry Garrett, 2023-02-01 In this research book there are some research chapters on Domination Theory And Beyond With researches on the basic properties the research book starts to make Domination Theory And Beyond more understandable Some studies and researches about neutrosophic graphs are proposed as book in the following by Henry Garrett 2022 which is indexed by Google Scholar and has more than 2498 readers in Scribd It's titled Beyond Neutrosophic Graphs and published by Ohio E publishing Educational Publisher 1091 West 1st Ave Grandview Heights Ohio 43212 United State This research book covers different types of notions and settings in neutrosophic graph theory and neutrosophic SuperHyperGraph theory Ref Henry Garrett 2022 Beyond Neutrosophic Graphs Ohio E publishing Educational Publisher 1091 West 1st Ave Grandview Heights Ohio 43212 United States ISBN 978 1 59973 725 6 http fs unm edu BeyondNeutrosophicGraphs pdf Also some studies and researches about neutrosophic graphs are proposed as book in the following by Henry Garrett 2022 which is indexed by Google Scholar and has more than 3218 readers in Scribd It s titled Neutrosophic Duality and published by Florida GLOBAL KNOWLEDGE Publishing House 848 Brickell Ave Ste 950 Miami Florida 33131 United States 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 Ref Henry Garrett 2022 Neutrosophic Duality Florida GLOBAL KNOW LEDGE Publishing House 848 Brickell Ave Ste 950 Miami Florida 33131 United States ISBN 978 1 59973 743 0 http fs unm edu NeutrosophicDuality pdf section Background There are some researches covering the topic of this research In what follows there are some discussion and literature reviews about them First article is titled properties of SuperHyperGraph and neutrosophic SuperHyperGraph in textbf Ref cite HG1 by Henry Garrett 2022 It s first step toward the research on neutrosophic SuperHyperGraphs This

research article is published on the journal Neutrosophic Sets and Systems in issue 49 and the pages 531 561 In this research article different types of notions like dominating resolving coloring Eulerian Hamiltonian neutrosophic path n Eulerian Hamiltonian neutrosophic path zero forcing number zero forcing neutrosophic number independent number independent neutrosophic number clique number clique neutrosophic number matching number matching neutrosophic number girth neutrosophic girth 1 zero forcing number 1 zero forcing neutrosophic number failed 1 zero forcing number failed 1 zero forcing neutrosophic number global offensive alliance t offensive alliance t defensive alliance t powerful alliance and global powerful alliance are defined in SuperHyperGraph and neutrosophic SuperHyperGraph Some Classes of SuperHyperGraph and Neutrosophic SuperHyperGraph are cases of research Some results are applied in family of SuperHyperGraph and neutrosophic SuperHyperGraph Thus this research article has concentrated on the vast notions and introducing the majority of notions 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 textbf Ref cite HG2 by Henry Garrett 2022 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 abbreviation J Curr Trends Comp Sci Res in volume 1 and issue 1 with pages 06 14 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 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 textbf Ref cite HG3 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 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 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 textbf Ref cite HG4 by Henry Garrett 2022 0049 Failed 1 Zero Forcing Number in Neutrosophic Graphs in textbf Ref cite HG5 by Henry Garrett 2022 Extreme SuperHyperClique as the Firm Scheme of Confrontation under Cancer's Recognition as the Model in The Setting of Neutrosophic SuperHyperGraphs in textbf Ref cite HG6 by Henry Garrett 2022 Uncertainty On The Act And Effect Of Cancer Alongside The Foggy Positions Of Cells Toward

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Neutrosophic SuperHyperResolving in SuperHyperGraph ResearchGate 2022 doi 10 13140 RG 2 2 29173 86244 bibitem HG38 Henry Garrett textit Initial Material of Neutrosophic Preliminaries to Study Some Neutrosophic Notions Based on Neutrosophic SuperHyperEdge NSHE in Neutrosophic SuperHyperGraph NSHG ResearchGate 2022 doi 10 13140 RG 2 2 25385 88160 bibitem HG39 Henry Garrett 2022 textit Beyond Neutrosophic Graphs Ohio E publishing Educational Publisher 1091 West 1st Ave Grandview Heights Ohio 43212 United States ISBN 979 1 59973 725 6 http fs unm edu BeyondNeutrosophicGraphs pdf bibitem HG40 Henry Garrett 2022 textit Neutrosophic Duality Florida GLOBAL KNOWLEDGE Publishing House 848 Brickell Ave Ste 950 Miami Florida 33131 United States ISBN 978 1 59973 743 0 http fs unm edu NeutrosophicDuality pdf end thebibliography **Recent Developments of Fuzzy Matrix Theory and Applications** Madhumangal Pal, 2024-05-27 This book provides a comprehensive overview of the development of fuzzy matrix theory from its inception to its current state It covers various types of fuzzy matrices such as intuitionistic fuzzy matrices interval valued fuzzy matrices interval valued intuitionistic fuzzy matrices bipolar fuzzy matrices picture fuzzy matrices neutrosophic fuzzy matrices m polar fuzzy matrices and similar one Drawing primarily from the author's research work and collaborations the book offers a state of the art discussion of these topics Theoretical concepts are illustrated with examples for clarity accompanied by figures depicting fuzzy matrices and their variations Suitable for both beginners and expert researchers the book offers a wealth of material and includes numerous open problems at the end of almost all chapters to encourage further exploration and investigation The Journal of Fuzzy Mathematics ,2005 **Application** of SuperHyperGraphs-Based Domination Number in Real World M. Hamidi, M. Taghinezhad, 2024-01-01 The concept of guasi superhypergraphs as a generalization of graphs makes a relation between some sets of elements in detail and in general in the form of parts to parts to whole and whole to whole elements of sets and is very useful in the real world This paper considers the novel concept of guasi superhypergraphs and introduces the notation of dominating set and domination number of quasi super hypergraphs Especially we have analyzed the domination number of uniform quasi superhypergraphs and computed their domination number on different cases The ows from right to left from left to right and two sided as maps play a main role in quasi superhypergraphs and it is proved that domination numbers of quasi superhypergraphs are dependent on the flows We define the valued star quasi superhyper graphs for the design of hypernetworks and compute their domination numbers We have shown that the domination numbers of valued star quasi superhypergraphs are distinct in different flow states In final we introduce some applications of dominating sets of quasi superhyper graphs in hypernetwork as computer networks and treatment networks with the optimal application

<u>Neutrosophic Sets and Systems, vol. 56/2023</u> Florentin Smarandache, Mohamed Abdel-Basset, Said Broumi, 2024-03-20 Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics that started in 1995 and their applications in any field

such as the neutrosophic structures developed in algebra geometry topology etc Neutrosophy is a new branch of philosophy that studies the origin nature and scope of neutralities as well as their interactions with different ideational spectra This theory considers every notion or idea together with its opposite or negation and with their spectrum of neutralities in between them i e notions or ideas supporting neither nor The and ideas together are referred to as Neutrosophy is a generalization of Hegel's dialectics the last one is based on and only According to this theory every idea tends to be neutralized and balanced by and ideas as a state of equilibrium In a classical way are disjoint two by two But since in many cases the borders between notions are vague imprecise Sorites it is possible that and of course have common parts two by two or even all three of them as well Neutrosophic Set and Neutrosophic Logic are generalizations of the fuzzy set and respectively fuzzy logic especially of intuitionistic fuzzy set and respectively intuitionistic fuzzy logic In neutrosophic logic a proposition has a degree of truth T a degree of indeterminacy I and a degree of falsity F where T I F are standard or non standard subsets of 0.1 Neutrosophic Probability is a generalization of the classical probability and imprecise probability Neutrosophic Statistics is a generalization of the classical statistics **Handbook of Research on Advanced Applications** of Graph Theory in Modern Society Pal, Madhumangal, Samanta, Sovan, Pal, Anita, 2019-08-30 In the world of mathematics and computer science technological advancements are constantly being researched and applied to ongoing issues Setbacks in social networking engineering and automation are themes that affect everyday life and researchers have been looking for new techniques in which to solve these challenges Graph theory is a widely studied topic that is now being applied to real life problems The Handbook of Research on Advanced Applications of Graph Theory in Modern Society is an essential reference source that discusses recent developments on graph theory as well as its representation in social networks artificial neural networks and many complex networks The book aims to study results that are useful in the fields of robotics and machine learning and will examine different engineering issues that are closely related to fuzzy graph theory Featuring research on topics such as artificial neural systems and robotics this book is ideally designed for mathematicians research scholars practitioners professionals engineers and students seeking an innovative overview of graphic theory *Neutrosophic Sets* and Systems, Vol. 47, 2021 Florentin Smarandache, Mohamed Abdel-Basser, Said Broumi, 2021-12-30 Papers on neutrosophic statistics neutrosophic probability plithogenic set paradoxism neutrosophic set NeutroAlgebra etc and their applications

Novel Concepts on Domination in Neutrosophic Incidence Graphs with Some Applications Siti Nurul Fitriah Mohamad,Roslan Hasni,Florentin Smarandache,2023-01-01 In graph theory the concept of domination is essential in a variety of domains It has broad applications in diverse fields such as coding theory computer net work models and school bus routing and facility lo cation problems If a fuzzy graph fails to obtain ac ceptable results neutrosophic sets and neutrosophic graphs can be used to model uncertainty correlated with indeterminate and inconsistent information in ar bitrary real world scenario In this study we consider the concept of domination as it relates to single valued neutrosophic incidence graphs

SVNIGs Given the importance of domination and its utilization in numer ous fields we propose the application of dominating sets in SVNIG with valid edges We present some rel evant definitions such as those of valid edges cardi nality and isolated vertices in SVNIG along with some examples Furthermore we also show a few significant sets connected to the dominating set in an SVNIG such as independent and irredundant sets We also in vestigate a relationship between the concepts of dom inating sets and domination numbers as well as irre dundant and independence sets in SVNIGs Finally a real life deployment of domination in SVNIGsis investigated in relation to COVID 19 vaccination locations as a practical application

Neutrosophic Sets and Systems, Vol. 90, 2025 Florentin Smarandache, Mohamed Abdel-Basset, Maikel Leyva Vazquez, This issue of Neutrosophic Sets and Systems presents a collection of advanced studies in neutrosophy and its applications across various fields extending concepts like fuzzy sets and logic The papers address topics related to managing uncertainty indeterminacy and ambiguity in complex systems Key applications include mathematics such as fixed point theorems and topological spaces and engineering problems such as highway asphalt pavement maintenance and traffic management The issue also explores the use of neutrosophic frameworks in decision making and evaluation with articles on e commerce website quality supply chain performance academic teaching assessment and the evaluation of hotel service quality Other papers apply the neutrosophic approach to areas like stock market analysis green technology innovation and the automated generation of digital media content The research demonstrates the utility of neutrosophic theory in providing robust and transparent solutions where traditional deterministic models may fall short

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