

Connectedness In Bitopological Spaces

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[Connectedness in Bitopological Spaces—CORE](#)

connectedness in a bitopological space. Besides, we investigate several results in $\mathfrak{I}S_1 \mathfrak{F} \mathfrak{U}$ semi connectedness for subsets in bitopological spaces. In particular, we discuss the relationship related with \mathfrak{U} semi connectedness between the topological spaces and bitopological space.

[İÜİÜ SEMI-CONNECTEDNESS IN BITOPOLOGICAL SPACES](#)

ideal bitopological spaces was initiated by Jafari and Rajesh [9]. The notion of connectedness in bitopological spaces has been studied by Pervin [20], Reilly [21] and Swart [24].

[Pairwise S**G—Connectedness in Bitopological Spaces](#)

CONNECTEDNESS IN BITOPOLOGICAL SPACES BY WILLIAM J. PERVIN (Communicated by Professor H. D. KLOOSTERMAN at the meeting of January 28, 1967) I. Introduction J. C. KELLY [1] has defined a bitopological space $(X, \mathfrak{f}1, \mathfrak{.82})$ to be a set X with two topologies $\mathfrak{f}1$ and $\mathfrak{.82}$ defined on it.

[\(PDF\) Connectedness in \(ideal\) bitopological ordered spaces](#)

Pervin [4] was first to define connectedness and components in a bitopological spaces, whereas the concept of quasi components in bitopological spaces was introduced by Reilly and Young [6]. Recently, the notions of pairwise S^*GO - connected spaces was introduced by K.Kannan [1] in bitopological spaces in 2009.

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We compare all these forms of connectedness and investigate their properties in almost regular, semi-regular and regular fuzzy bitopological spaces. A triple (X, τ_1, τ_2) , where X is any non-empty set and τ_1 and τ_2 are two arbitrary fuzzy topologies on X is called a fuzzy bitopological space [4]. 2.

[\(PDF\) P*-*-Connectedness in Ideal Bitopological Spaces](#)

A bitopological space $(X, \mathfrak{T}, \mathfrak{Q})$ is said to be δ -disconnected if X can be expressed as the union of two disjoint, δ -open, non empty subsets of X . Otherwise, X is called δ -connected, i.e X is δ -connected if there does not exist disjoint, non empty, δ -open

[On - Connectedness and - Disconnectedness and their...](#)

A Study of Compactness and Connectedness in Rough Topological Spaces DOI: 10.9790/5728-1206050107 www.iosrjournals.org 3 | Page \mathfrak{B} 1 of open sets of the form x , where x is a \mathfrak{U} - open set and is a \mathfrak{U} - open set. ...

[Connectedness in Bitopological spaces—IJEAS](#)

Pervin [14] was first to define connectedness and components in a bitopological spaces, whereas the concept of quasi components in bitopological spaces was introduced by Reilly and Young [7]. Recently, the notions of pairwise S^*GO - connected spaces was introduced by K.Kannan [9] in bitopological spaces in 2009.

[Separation Axioms and Semi- \$\alpha\$ -Open Sets in...](#)

After introducing the definition of separated sets, the connectedness of a fuzzy bitopological space is discussed. A number of results are obtained. Some of them show the connectedness defined here is a "good extension"

[\(PDF\) Semi- \$\alpha\$ -Connectedness in Bitopological Spaces...](#)

In addition, a supra topology \mathfrak{T}^* is used to study connectedness in the ideal bitopological space $(X, \mathfrak{T}_1, \mathfrak{T}_2, \mathfrak{I})$. Examples have introduced to illustrate the concepts in a friendly way.

[P-Connectedness in Ideal Bitopological Spaces](#)

Abstract: The objective of this paper is to study a special case of connectedness in bitopological spaces by considering ij -semi- α -open sets and their relationships with ij - α -connected space and ij -pre-connected space.

[A Study of Compactness and Connectedness in Rough...](#)

Connectedness in Intuitionistic Fuzzy Ideal Bitopological Space . we obtain several properties of Connectedness in Intuitionistic Fuzzy Ideal Bitopological spaces and the relationship between this notion and other related notions. Keywords: Intuitionistic Fuzzy Ideal Bitopological Spaces , Pairwise

[\$\theta\$ -Connectedness and \$\delta\$ -connectedness in fuzzy bitopological...](#)

bitopological space (X, τ_1, τ_2) and studied some properties of the space (X, τ_1, τ_2) via properties of the space (X, τ_12) . The notion of connectedness in bitopological spaces has been studied by Pervin [14], Reilly [15] and Swart [16]. In 2014 Mandira Kar and Thakur [12] have been studied the notion of connectedness in ideal bitopological spaces, but

[QUASI-COMPONENTS IN BITOPOLOGICAL SPACES Ivan L. Reilly...](#)

In this paper many types of weak open sets in bitopological spaces will be defined, Relations between those sets will be discussed, properties such as supra and infra topological structures will be determined. Also a new type of connectedness for bitopological spaces will be defined and

[Connectedness of Fuzzy Bitopological Spaces](#)

We are going to establish some results of - semiconnectedness and compactness in a bitopological space. Besides, we will investigate several results in - semiconnectedness for subsets in bitopological spaces. In particular, we will discuss the relationship related to semiconnectedness between the topological spaces and bitopological space. That is, if a bitopological space is - semiconnected ...

[Especial case of connectedness in bitopological spaces](#)

topological space, many scholars has a great interest about researching dual topology, then introduced bitopological spaces on the basis of topological space, and makes a long-term study of the separation .Connectivity is an important branch of fuzzy topology, the domestic scholars

[Connectedness in Intuitionistic Fuzzy Ideal Bitopological...](#)

in bitopological spaces . In 1992 , Kar A ., [4] have introduced the notion of ij -pre-open sets in bitopological spaces . In 2012 , H . I . Al-Rubaye , Qaye , [2] introduced the notion of sets in bitopological spaces . In this paper, we study especial case of connectedness in bitopological spaces by

[Connectedness in Bitopological Spaces](#)

CONNECTEDNESS IN BITOPOLOGICAL SPACES BY WILLIAM J. PERVIN (Communicated by Professor H. D. KLOOSTERMAN at the meeting of January 28, 1967) I. Introduction J. C. KELLY [1] has defined a bitopological space $(X, \mathfrak{f}1, \mathfrak{.82})$ to be a set X with two topologies $\mathfrak{f}1$ and $\mathfrak{.82}$ defined on it. It is with such spaces

[Weak forms of \$\omega\$ -open sets in bitopological spaces and...](#)

connectedness. In [2], P -spaces and external disconnectedness are studied. Connectedness in [4-6] are used to expand some topological spaces. In [13], authors proved that neither first countable nor C -ech-complete spaces are maximal Tychonoff connected. Many other topologists defined and studied connectedness in bitopological spaces [3, 12].

[Pairwise gp**O - Connectedness in bitopological spaces](#)

QUASI-COMPONENTS IN BITOPOLOGICAL SPACES Ivan L. Reilly and Stuart N. Young (received 27 September 1971) The triple $(X, \mathfrak{T}, \mathfrak{T}^*)$ where X is a set and \mathfrak{T} and \mathfrak{T}^* are topologies on X is called a bitopological space. Kelly [2] initiated the systematic study of such spaces and several other authors have contributed to the development of the theory.

[Connectedness in Bitopological Spaces](#)

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