
SUMMERY AND CONCLUSION

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This dissertation is devoted to study generalized π -closed sets in topological spaces, Bi- \check{C} ech closure spaces and Biminimal structure spaces

In Chapter 1, Preliminary definitions and results are discussed.

In Chapter 2, generalized π closed sets ($g\pi$ -closed sets), $g\pi$ -continuous functions, $g\pi$ -irresolute functions, contra $g\pi$ -continuous functions, almost contra $g\pi$ -continuous functions and $g\pi T_{1/2}$ spaces are introduced and their properties are discussed.

In Chapter 3, $g\pi$ -closed functions, $g\pi$ -homeomorphism, $g\pi$ -compactness and $g\pi$ -connectedness in topological spaces are discussed and its properties, characterizations and applications are analyzed.

In Chapter 4, quasi $g\pi$ -closed functions, $g\pi$ -quasi irresolute functions and $g\pi$ -quasi closed graphs in topological spaces are introduced. The properties of $g\pi$ -Hausdorff spaces and $g\pi$ -normal spaces are discussed.

In Chapter 5, $g\pi$ -closed sets in Bi- \check{C} ech closure spaces are introduced. Properties of (k_1, k_2) - $g\pi$ -open sets, (k_1, k_2) - $g\pi$ -continuous functions, (k_1, k_2) - $g\pi$ irresolute functions, $g\pi C_0$ bi- \check{C} ech spaces, $g\pi C_1$ bi- \check{C} ech spaces, $g\pi T_{1/2}^*$ bi- \check{C} ech spaces and $g\pi T_{1/2}^{**}$ bi- \check{C} ech spaces are studied.

In Chapter 6, $m_X^{(i,j)}$ - $g\pi$ -closed sets in biminimal structure spaces are studied. The concepts of $m_X^{(i,j)}$ - $g\pi$ -continuous functions, $m_X^{(i,j)}$ - $g\pi$ -irresolute functions and $m_X^{(i,j)}$ $g\pi T_{1/2}$ spaces are introduced and their properties are analyzed.

In Chapter 7, $g\pi$ -closed sets in terms of grills are studied. The concepts of $g\pi(\theta)$ -convergence, $g\pi(\theta)$ -adherence, $g\pi(\theta)$ -linked and $g\pi(\theta)$ -conjoint are introduced and their properties are discussed.

These concepts can be studied in fuzzy topological spaces and fuzzy minimal and fuzzy Biminimal structures spaces.