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bT^{μ}-HAUSDORFF SPACES IN SUPRA TOPOLOGICAL SPACES

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Abstract. In this paper, the author interpolate bT^{μ}-Hausdorff space and $\mathrm{bT}^{\mu} - T_1$ space as well as analysis some of its properties by utilizing the concepts of bT^{μ}-Lindelof, bT^{μ}-normal, strongly bT^{μ}-regular space and bT^{μ}-compact in supra topological spaces.

1. Introduction

The separation axioms of topological spaces are usually denoted with the letter T after the German Trennung which means separation.The separation axioms that were studied together in this way were the axioms for Hausdorff spaces, regular spaces and normal spaces.The first step of generalized closed sets was done by Levine in 1970 [13] and he initiated the notion of $\mathrm{T}^{1/2}$-spaces in unital topology which is properly placed between T_0-space and T_1-spaces by defining $\mathrm{T}_{1/2}$-space in which every generalized closed set is closed.

It was Mashour.et.al[14] who first came up with the supra topology concept by studying the S^* continuous as well as S continuous. They create a root for studying separation axioms and relations on supra topology. Motivation for supra topology come from the demand to procure numerous examples that satisfies few properties on the finite set, discrete topology is the only topology that fulfills T_1-spaces on finite set, whereas there are many different types of supra topology that make certain conditions of the T_1-spaces.

Takashi Noiri and Sayed [16] in their research focused on a method of introducing supra b-continuity and b-open sets in the supra topology space in the year 2010 and also elaborated the supra b-open as well as the continuous maps as well as its interconnectivity. Taha [20] first person create a root of supra compactness in supra topological spaces. Bringing out the idea of supra b-compact spaces and supra b-Lindelof spaces by

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