

STRONGLY b -I-open SETS IN IDEAL TOPOLOGICAL SPACES

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ABSTRACT. In this paper, we introduce the notion of *Strongly b -I-open* sets in ideal topological spaces and investigate some of their properties. Further we study the continuous functions for the above set and derive the some of their properties.

REFERENCES

- [1] A. El-Monsef, E.F.Lashien and A.A. Nasef, *On I-open sets and I-continuous functions*, Kyungpook Math. J., Vol. 32, No. 1 (1992), 21-30.
- [2] A. Caksu Guler and G. Aslim, *b -I-open sets and decomposition of continuity via idealization*, Proceedings of Institute of Mathematics and Mechanics. National Academy of Sciences of Azerbaijan, Vol. 22 (2005), 27-32.
- [3] J. Dontchev, *Idealization of Ganster-Reilly decomposition theorems*, (1999), <http://arxiv.org/abs/Math.GN/9901017>.
- [4] J. Dontchev, M. Ganster and D. Rose, *Ideal resolvability*, Topology Appl., 93 (1999), 1-16.
- [5] E. Hatin and T. Noiri, *On decomposition of continuity via idealization*, Acta Math. Hungar., 96 (4) (2002), 341-349.
- [6] S. Jafari and T. Noiri, *Contra-super-continuous functions*, Ann. Univ. Sci. Budapest. Etvs Sect. Math., Vol. 22 (1999), 27-34.
- [7] D. Jankovic and T.R. Hamlett, *Compatible extensions of ideals*, Boll. Un. Mat. Ital. B. Serie VII, Vol. 6, No. 3 (1992), 453-465.
- [8] D. Jankovic and T.R. Hamlett, *New topologies from old via ideals*, Amer. Math. Monthly, 97 (1990), 295-310.
- [9] A. Keskin, T. Noiri and S. Yuksel, *Idealization of a decomposition theorem*, Acta Math. Hungar., 102 (2004), 269-277.
- [10] M. Akdag, *On b -I-open sets and b -I-continuous functions*, Int. J. Math. Math. Sci., (2007), 1-13.
- [11] M. Mrsevic, *On Pairwise R_0 and pairwise R_1 bitopological spaces*, Bull. Math. Soc. Sci. Math. R. S. Roumanie (N.S.), Vol. 30 (78), No. 2 (1986), 141-148.
- [12] V. Renuka Devi and D. Sivaraj, *A Decomposition of continuity via ideals*, Acta Math. Hungar., Vol. 118 (1-2) (2008), 53-59.

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