Intuitionistic fuzzy topological spaces

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2000 Mathematics Subject Classification. 54A40, 03E72

In 1983, K.T. Atanassov proposed a generalization of the notion of fuzzy set: the concept of intuitionistic fuzzy set [1]. Also, D. Coker [2] constructed the fundamental theory on intuitionistic fuzzy topological spaces, and D. Coker and other mathematicians studied compactness, connectedness, continuity, separation, convergence and paracompactness in intuitionistic fuzzy topological spaces. Finally, G.-J. Wang and Y.Y. He [5] showed that every intuitionistic fuzzy set may be regarded as an L-fuzzy set for some appropriate lattice L. Nevertheless, the results obtained by the above authors are not redundants with other for the ordinary fuzzy sense, since we will show in this paper.