ASYMMETRIC DUAL SEMI-OPEN SETS

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Abstract. In this paper, we introduce and study the concept of \((P_i, P_j)\) dually semi-open sets in a bitopological space \((X, P_{1}, P_{2})\). We also introduce and study the notion of \((P_i, P_j)\) dually semi-closed sets. We see that \((P_i, P_j)\) dually semi-open and \((P_i, P_j)\) dually semi-closed sets exist only on structures endowed with two topologies e.g. quasi-metric spaces. The properties of \((P_i, P_j)\) dually semi-open (resp. \((P_i, P_j)\) dually semi-closed) sets of bitopological spaces are different from those of semi-open (resp. semi-closed) sets.

References


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