

## NEW APPROACHES FOR GENERALIZED CLOSED SETS AND OPEN SETS IN BITOPOLOGICAL SPACES

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### Abstract

For a bitopological space  $(X, \tau_1, \tau_2)$  and non  $\tau_1$  and non  $\tau_2$  open set  $B$ , the topology  $\tau_i(B)$  generated by  $\tau_i$  and  $\tau_i(B)$  is finer than  $\tau_i$ . For each  $B \notin \tau_i$ , new class of open sets arise, these classes are applied in introducing new forms of generalized closed sets and generalized open sets. Properties of these classes are investigated, examples and counter examples are given and a comparison between new types and these similar classes are obtained.

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Key Words and Phrases :  $(\tau_i, \tau_j)$ -Bg-closed set,  $(\tau_i, \tau_j)$ -Bg-open set,  $(\tau_i, \tau_j)$ -Bg-closure,  $(\tau_i, \tau_j)$ -Bg-interior.

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