

## Digraph Generated By Idempotents In Certain Finite Semigroup Of Mappings

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**Abstract :** The idempotent generators in a finite full transformation and the digraph of full transformation semi group have been an interesting area of research in group theory. In this work, it characterized some idempotent elements in full transformation semigroup  $T_n$  by counting the strongly connected and disconnected digraphs, and also the weakly and unilaterally connected digraphs. The order for those digraphs was further obtained in  $T_n$ .

**Keywords :** digraphs, idempotent, semigroup, transformation

**Conference Title :** ICMSS 2025 : International Conference on Mathematical and Statistical Sciences

**Conference Location :** Sydney, Australia

**Conference Dates :** March 29-30, 2025