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*Various bounds on the scrambling index and the generalized scrambling index*

The scrambling index of a primitive digraph  $D$  is the smallest positive integer  $m$  such that for every pair of vertices  $u$  and  $v$ , we can get to a vertex  $w$  in  $D$  by directed walks of length  $m$ , and it is denoted by  $k(D)$ . In this talk, we present various upper bounds on the scrambling index and the generalized scrambling index of primitive digraphs.