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## THE ECCENTRIC DIGRAPH OF FRIENDSHIP GRAPH AND FIRECRACKER GRAPH

Tri Atmojo Kusmayadi and Nugroho Arif Sudibyo

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### Abstract

Let  $G$  be a graph with a set of vertices  $V(G)$  and a set of edges  $E(G)$ .

Then the distance from vertex  $u$  to vertex  $v$  in  $G$ , denoted by  $d(u, v)$ , is the length of the shortest path from vertex  $u$  to  $v$ . The eccentricity of vertex  $u$  in a graph  $G$  is the maximum distance from vertex  $u$  to any other vertices in  $G$ , denoted by  $e(u)$ . Vertex  $v$  is an eccentric vertex from  $u$  if  $d(u, v) = e(u)$ . The eccentric digraph  $ED(G)$  of a graph  $G$  is a graph that has the same set of vertices as  $G$ , and there is an arc (directed edge) joining vertex  $u$  to  $v$  if  $v$  is an eccentric vertex from  $u$ . In this paper, we determine the eccentric digraph of a class of graphs called the friendship graph  $F_n^*$  and firecracker graph  $F_{n,k}$ .

**Keywords and phrases:** eccentric digraph, eccentricity, friendship graph, firecracker graph.

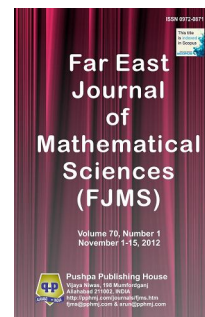
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