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# Distance In Graphs

## Buckley Harary

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distance. Thus  $\dim(G) \leq d$  if and only if  $G$  is isomorphic to a subgraph of a unit-distance graph in  $\mathbb{R}^d$ . **DISTINCT**

**DISTANCES IN GRAPH DRAWINGS** For two graphs  $G_1$  and  $G_2$  and every graph  $K$  that is isomorphic to an induced subgraph of  $G_1$  and  $G_2$ , there exists a connected graph  $H$  with  $C(H) \cong G_1$ ,  $M(H) \cong G_2$ , and  $C(H) \cap M(H) \cong K$ . **2. DISTANCE IN DIAGRAMS.** We now turn to the main topic of this paper: distance in digraphs. The standard distance in digraphs is directed distance. **Distance in Digraphs - ScienceDirect** Harary equienergetic graphs have been constructed with the help of generalized composition through Harary equitable

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 Hence  $H(T_1) < \min\{H(T_2), H(T_3)\}$  when  $n$  is sufficiently large. It follows that the tree that minimizes the Harary index is not always a caterpillar. However, the following simple minimization result is easy to prove:  
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 The Cartesian product of two unit-distance graphs is also a unit-distance graph (Erdős et al. 1965, Buckley and Harary 1988, Horvat and Pisanski 2010). This immediately

establishes the unit-distance status of a number of families of graphs, including some of those below. Unit-Distance Graph -- from Wolfram MathWorld  
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 The Resistance-Harary index of a connected graph  $G$  is defined as  $RH(G) = \sum_{\{u, v\} \subseteq V(G)} r(u, v)$ , where  $r(u, v)$  is the resistance distance between vertices  $u$  and  $v$  in  $G$ . A graph  $G$  is called a unicyclic graph if it contains exactly one cycle and a fully loaded unicyclic graph is a unicyclic graph that no vertex with degree less

than three in its unique cycle.

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The concept of  
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with the work on the  
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distance graphs and  
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the properties of unit  
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dimensions of other  
graph products.

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The distance between two vertices is the basis of the definition of several graph parameters including diameter, radius, average distance and metric dimension.

These invariants are examined, especially how they relate to one another and to other graph invariants and their behaviour in certain graph classes.

We also discuss characterizations of graph classes described in terms of

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