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FUZZY DETOUR AS A HAMILTONIAN PATH IN FUZZY GRAPHS

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Abstract

A fuzzy detour between any two vertices u and v of a fuzzy graph is a path giving the maximum μ-length between these vertices. In this note, it has been found that every fuzzy detour between any two vertices of a fuzzy graph is a Hamiltonian path. An algorithm for determining fuzzy detour and fuzzy detour μ-distance between any two vertices are presented.

Key Words : *μ-length, Fuzzy detour μ-distance, Hamiltonian path.*

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