

**GRAPH ISOMORPHISM PROBLEM AS A GRAPH CODING IN
TERMS OF PROBABILITY PROPAGATION MATRIX
INVARIANCE CRITERION BY USING ITCPP**

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Abstract

The graph isomorphism problem for two connected graphs is to determine whether two given graphs are isomorphic or not. In this paper, we discuss the graph isomorphism problem as a graph coding in terms of probability propagation matrix invariance criterion [8, 13, 14] by using ITCPP [15]. It may extend for ' n '-number of vertices where ' n ' is a positive integer.

Key Words : *Graph isomorphism, Graph invariant, Degree, Component, Probability propagation matrix, and ITCPP (Isomorphism through C++)*.

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