DISTINGUISHING CARTESIAN PRODUCTS
OF COUNTABLE GRAPHS

EHSAN ESTAJI

Hakim Sabzevari University, Sabzevar, Iran

e-mail: ehsan.estaji@hsu.ac.ir

WILFRIED IMRICH

Montanuniversität Leoben, A-8700 Leoben, Austria

e-mail: imrich@unileoben.ac.at

RAFAŁ KALINOWSKI, MONIKA PILŚNIAK

AGH University, Department of Discrete Mathematics
30-059 Krakow, Poland

e-mail: kalinowski@agh.edu.pl

AND

THOMAS TUCKER

Colgate University, Hamilton NY 13346, USA

e-mail: ttucker@colgate.edu

Abstract

The distinguishing number $D(G)$ of a graph $G$ is the minimum number of colors needed to color the vertices of $G$ such that the coloring is preserved only by the trivial automorphism. In this paper we improve results about the distinguishing number of Cartesian products of finite and infinite graphs by removing restrictions to prime or relatively prime factors.

Keywords: vertex coloring, distinguishing number, automorphisms, infinite graphs, Cartesian and weak Cartesian product.

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References


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