A NOTE ON THE INTERVAL FUNCTION OF
A DISCONNECTED GRAPH

MANOJ CHANGAT
FERDOOS HOSSEIN NEZHADE

Department of Futures Studies
University of Kerala
Trivandrum-695034, India
e-mail: mchangat@gmail.com
ferdows.h.n@gmail.com

HENRY MARTYN MULDER

Econometrisch Instituut
Erasmus Universiteit
Rotterdam, the Netherlands
e-mail: hmmulder@ese.eur.nl

AND

N. NARAYANAN

Department of Mathematics
IIT Madras, Chennai-600 036, India
e-mail: narayana@gmail.com

Abstract

In this note we extend the Mulder-Nebeský characterization of the interval function of a connected graph to the disconnected case. One axiom needs to be adapted, but also a new axiom is needed in addition.

Keywords: interval function, transit function, axiomatic characterization, disconnected graph.

2010 Mathematics Subject Classification: 05C12, 05C38, 05C05.

References


doi:10.1023/A:1013744324808


Received 21 May 2016
Revised 13 September 2016
Accepted 14 September 2016