Acyclic and unicyclic graphs whose minimum skew rank is equal to the minimum skew rank of a diametrical path

Luz M. DeAlba

(Submitted on 12 Jul 2011)

The minimum skew rank of a simple graph G over the field of real numbers, is the smallest possible rank among all real skew-symmetric matrices whose (i,j)-entry (for i not equal to j) is nonzero whenever {i, j} is an edge in G and is zero otherwise. In this paper we give an algorithm for computing the minimum skew rank of a connected unicyclic graph, and classify all connected acyclic and connected unicyclic graphs G, for which the minimum skew rank of G is equal to the minimum skew rank of P, where P is a diametrical path of G.

Subjects:	**Combinatorics (math.CO)**
MSC classes:	05C50, 15A03
Cite as:	**arXiv:1107.2170 [math.CO]**
	(or **arXiv:1107.2170v1 [math.CO]** for this version)

Submission history

From: Luz DeAlba [view email]
[v1] Tue, 12 Jul 2011 00:24:10 GMT (881kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.

Download:

- PDF
- PostScript
- Other formats

Current browse cont
math.CO
< prev | next >
new | recent | 1107

Change to browse b
math

References & Citatio
- NASA ADS

Bookmark(what is this?)