عنوان مقاله:
DIVISOR TOPOLOGIES AND THEIR ENUMERATION

محل انتشار:
مجله ساختارهای جبری, دوره 10, شماره 1 (سال: 1401)

تعداد صفحات اصل مقاله: 10

نویسندگان:
.F. Esmaeeli - *Department of Pure Mathematics, Ferdowsi University of Mashhad, P.O. Box ۱۱۵۹, Mashhad, Iran*

K. Mirzavaziri - *Department of Computer Science, School of Mathematics, Statistics and Computer Science, University .of Tehran, P.O. Box ۱۴۱۵۵۶۶۱۹, Tehran, Iran*

.M. Mirzavaziri - *Department of Pure Mathematics, Ferdowsi University of Mashhad, P.O. Box ۱۱۵۹, Mashhad, Iran*

خلاصه مقاله:
For a positive integer m, a subset of divisors of m is called a \textit{divisor topology on m} if it contains ۱ and m and it is closed under taking \gcd and \rm lcm. If m=p_۱\dots p_n is a square free positive integer, then a divisor topology m corresponds to a topology on the set [n]=\{۱,۲,\ldots,n\}. Giving some facts about divisor topologies, we give a .recursive formula for the number of divisor topologies on a positive integer

کلمات کلیدی:
Topology, Divisor topology, Semi-divisor topology