World Academy of Science, Engineering and Technology International Journal of Mathematical and Computational Sciences Vol:11, No:08, 2017

Zero Divisor Graph of a Poset with Respect to Primal Ideals

Authors: Hossein Pourali

Abstract: In this paper, we extend the concepts of primal and weakly primal ideals for posets. Further, the diameter of the zero divisor graph of a poset with respect to a non-primal ideal is determined. The relation between primary and primal ideals in posets is also studied.

 $\textbf{Keywords:} \ associated \ prime \ ideal, \ primary \ ideal, \ primal \ ideal, \ prime \ ideal, \ semiprime \ ideal, \ weakly \ primal \ ideal, \ zero$

divisors graph

Conference Title: ICDMAA 2017: International Conference on Discrete Mathematics, Algorithms and Applications

Conference Location : Vancouver, Canada **Conference Dates :** August 07-08, 2017