

Furthering Graph Valuations

Many publications involving graph labelling focus on finding a graph and showing that it can support a particular labelling scheme. In most cases the methodology for producing an optimal labelling seems to be to find a lower bound for the labelling (in terms of strength, isolates or other parameters) and constructing a scheme that meets this bound.

It may be worth going further and investigating whether the labelling scheme provided is unique and, if not are there better labelling schemes. This begs the question “What do we mean by better?” This talk will investigate some of these questions.