
JAE-BAEK LEE, Kyungpook National University
Reconfiguring Reflexive Digraphs

For a fixed graph H , the recolouring problem for H -colouring (i.e. homomorphisms to H) ask: given an irreflexive graph G and two H -colourings ϕ and ψ of G , is it possible to transform ϕ into ψ by changing the colour of one vertex at a time such that all intermediate mappings are H -colourings? For a reflexive graph G , one requires the extra condition that the colour must be changed to a neighbour of its current colour.