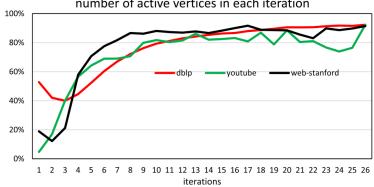## Colored vertices in each iteration

(a) Colored vertices

the ratio of the number of conflicting vertices to the number of active vertices in each iteration

(b) Vertices conflict rate

(a) Stanford

(b) DBLP

(c) Youtube

(d) RoadNet

(e) Wiki

(f) soc-lj

(g) RMAT

(h) Random

(i) Twitter

(j) Webbase