

FINGERS: Exploiting the fine-grained parallelism in Graph Mining Accelerators

Graph Mining - Emerging domain, high time complexity
⇒ Hardware accelerators needed,

But, don't utilize parallelism well.

SOTA model uses only coarse-grained parallelism

Authors propose new fine level parallelism - branch level, set level, segment level
propose FINGERS, a new HA, that gives 2.8x speedup over SOTA model.

Graph Mining frameworks $\begin{matrix} \nearrow & \text{Pattern Oblivious} \\ \searrow & \text{Pattern aware} \end{matrix}$
PE (processing elements) - underutilized, inefficient resource provision.

