



Aalto University
School of Science

CS-E4600 Alg. methods of data mining

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Graph partitioning project

1. Introduction

TODO

2. Literature review

TODO

3. Algorithm and method

TODO

Algorithm 1 Simple count triangle: $\text{count}(V, E)$

Input: V : Set of vertices of G , E : Set of edges of G s.t. $E \subseteq V \times V$

Output: c : number of triangles in G

```
c ← 0
for all Vertices  $v_i \in V$  do
  for all Vertices  $v_j \in V$  do
    for all Vertices  $v_k \in V$  do
      if  $(v_i, v_j) \in E$  and  $(v_j, v_k) \in E$  and  $(v_i, v_k) \in E$  then
        c ← c + 1
      end if
    end for
  end for
end for
// Undirected graph → 6 permutations of triplet  $(v_i, v_j, v_k)$ 
return c/6
```

4. Experimental results

TODO

5. Conclusion

TODO

References

Appendix