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An improved heuristic algorithm for finding a k-club in an undirected graph

Yu-Fen Zeng
Shu-Te University, Taiwan

With the rise of social network website (e.g., Facebook and Twitter), the research of social network analysis (SNA) has been getting more attention. A common problem is to identify community or organizations in network. In graph theory perspective, that is to find a dense structure in graph. For a graph G= (V, E), a k-club W of G is a subgraph of G induced by W, such that the diameter of W is k. This structure plays an important role in social network. In this paper, we introduce two common algorithms which are Constellation and Drop. We also present several improved version of Constellation and Drop. And finally, we derive an improved algorithm based On Constellation. The comparison result of our algorithm and other existing improved algorithm is shown at last.

Biography

Yu-Fen Zeng is working on her Master dissertation from Shu-Te University. She is a graduate student majoring in computer science information engineering.

s14639112@stu.edu.tw

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