On the Near-Common Neighborhood Graph of a Graph

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Abstract

The near common-neighborhood graph of a graph G, denoted by ncn(G), is the graph on the some vertices of G, two vertices being adjacent in ncn(G) if there is at least one vertex in G not adjacent to both of them. A graph is called near-common neighborhood graph if it is the near-common neighborhood of some graph. In this paper we introduce the near-common neighborhood of a graph, the near common neighborhood graph, near-completeness number of a graph, basic properties of these new graphs are obtained and interesting results are established.

References

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Index Terms

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Keywords

Near-common neighborhood graph (of graph), common neighborhood graph (of graph), Near-common neighborhood graph, Nearcompleteness number (of graph)