

Graph Evolutions

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Abstract

We introduce the notions of an embedding-projection pair, a graph evolution, retract and PPR graphs and present some elementary facts about PPR graphs. Then we construct a large number of non-isomorphic non-PPR graphs. At last we present an algorithm verifying whether a given graph is PPR and we show the results of our experiments concerning finite random graphs and whether they are PPR. This is a joint work with Szymon Głąb and Filip Turoboś.