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**Tomas J Boothby\*** ([tomas.boothby@gmail.com](mailto:tomas.boothby@gmail.com)), 2551 Austin Ave, Coquitlam, BC V3K 3S2, Canada, and **Robert L Miller**. *Generation of Nonisomorphic Graph Embeddings*. Preliminary report.

This paper uses the ideas of canonical augmentation to generate nonisomorphic embeddings of graphs. We develop two augmentation schemes, one of which generates all nonisomorphic embeddings of all graphs on a fixed number of vertices, the other of which generates all nonisomorphic embeddings of a given graph. These methods have applications to problems such as computing the minimal and maximal genus of graphs, and have the benefit of building upon the general canonical augmentation framework developed by McKay. (Received August 09, 2010)