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*Unigraphs and hereditary graph classes*

A unigraph is a graph that is the unique realization of its degree sequence up to isomorphism. Most graphs are not unigraphs, but the class of unigraphs contains several remarkable families of graphs, such as the threshold graphs, the matroidal graphs, and the matrogenic graphs.

Though each of these subclasses is hereditary, the class of unigraphs itself is not hereditary, though it “almost” is. We characterize the largest hereditary subclass and the minimal hereditary superclass of the unigraphs. We will see that like the classes of threshold, matroidal, and matrogenic graphs, these larger hereditary classes have several alternate characterizations in terms of forbidden subgraphs, structural decompositions, and degree sequence conditions.