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Mathematical Modelling and Geometry

Full text

Algorithm of the Cyclic-Order Graph Program (Implementation and Usage)

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Abstract. C++ Implementation of the Cyclic-Order Graph Algorithm is presented together with the source code. This program helps in determination of crossing numbers for join products of graphs with paths of given numbers of vertices necessary for the proofs in the Graph Theory. Comparison with MATLAB (GNU Octave) is provided together with outlooks for the future development.

Keywords: crossing number, cyclic permutation, join product, paths

MSC numbers: 05C12, 05C62, 05C85, 68W40

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