Summary: A graph $G$ is prime orientable if it is possible to orient its edges in such a way that the resulting oriented graph is prime, i.e., indecomposable under modular decomposition. We characterize prime orientable graphs.

MSC:
- 05C70 Edge subsets with special properties (factorization, matching, partitioning, covering and packing, etc.)
- 05C50 Graphs and linear algebra (matrices, eigenvalues, etc.)
- 68R10 Graph theory (including graph drawing) in computer science

Keywords:
- module; prime; prime orientation; stable module; connected; duo

References:
[17] Spinrad, J., \( \left\langle P_4 \right\rangle \)-trees and substitution decomposition, Discrete Appl. Math., 39, 263-291 (1992) · Zbl 0758.68036

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