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On Minimization of the Number of Branches in Branch-and-Bound Algorithms for the Maximum Clique Problem

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**Highlights**

- Incremental MaxSAT reasoning is effective to reduce branches in Max-Clique algorithms.
- An efficient static strategy for reducing branches in MaxClique algorithms is proposed.
- Combining a static and a dynamic strategy highly improves BnB Max-Clique algorithms.
- The new highly efficient MaxClique algorithms DoMC2, SoMC2 and MoMC are described.

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