

Estimating Energy Demand and Emission from the Transportation Sector by Using a Modified Artificial Bee Colony (MABC) Algorithm

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ABSTRACT

Nowadays, the world has rapidly expanded worldwide in every sector, including the transportation sector. In this research, a Modified Artificial Bee Colony (MABC) algorithm was proposed in order to estimate the energy demand and emission from the transportation sector. This research was conducted to optimize energy consumption to reduce environmental problems such as global warming and prevent future economic growth crises, specifically in oil consumption. The proposed method is intended to provide the estimated best energy iteration as long as the optimal value for each parameter used in this research.

Keywords: Energy demand and emission, Transportation sector, Modified Artificial Bee Colony (MABC) algorithm