Abstract

The multi-pass turning process is one of the most used machining methods in manufacturing industry. The minimization of the unit production cost is considered the key objective of this operation. In this work, the cutting parameters are carried out using a recently developed advanced bio-inspired optimization algorithm, called the cuckoo optimization algorithm (COA). The obtained results are compared with previously published results available in the literature. It has been proven that the COA competes robustly with a wide range of optimization algorithms