IEEE Transactions on Evolutionary Computation

Effective Inversely Proportional Hypermutations for Unimodal and Multimodal Optimisation

**-Summary of Changes-**

Compared to the extended abstract presented at the 2019 Genetic and Evolutionary Computation Conference (GECCO 2019) this work has been considerably improved as follows:

1. The manuscript has been substantially re-organised and thoroughly polished for a larger audience with substantial parts having been re-written including parts of some proofs.
2. The polishing has led to a new Table (i.e., Table 1) and two new theorems i.e., Theorems 6 and 7 - the results were speculated without supporting theorems in the conference version.
3. The manuscript now contains the proofs of two theorems which were previously omitted i.e., Theorems 2 and 5 (in the conference version Th 3.2 and Th. 3.6).
4. The manuscript has been better embedded into the state of the art with the amount of related cited literature substantially increased. Approximately 54 citations versus 26.

Sincerely,

Dogan Corus

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