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A novel hybrid bat algorithm for solving continuous optimization problems

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Highlights

A novel hybrid bat algorithm (HBA) based on three modification methods is proposed.

The bat algorithm is hybridized with extremal optimization (EO) algorithm.

The contribution of three modifications is analyzed by classical benchmark functions.

The performance of HBA is validated by CEC 2014 test functions.

Prove that HBA improves significantly the performance of the bat algorithm.

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