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Improving exploration property of velocity-based artificial bee colony algorithm using chaotic systems

Parham Moradi, Nafiseh Imanian, Nooruldeen Nasih Qader, Mahdi Jalili

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#### ACCEPTED MANUSCRIPT

## **Highlights**

- A chaos-based method, called CVABC, is proposed for numerical function optimization.
- CVABC uses logistic maps to generate initial individuals which are fully diversified.
- A novel search strategy is used to improve exploitation and exploitation properties.
- CVABC has higher convergence speed and better search ability than other methods.



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