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## Performance Analysis of Self-Adaptive Evolutionary Computation Methods<sup>1</sup>

## Anjan Kumar Swain

Associate Professor, Indian Institute of Management Kozhikode, IIMK Campus P O, Kozhikode – 673 570 (Email: akswain@iimk.ac.in)

This paper concerns with the detailed analysis of the performance of self-adaptive evolutionary computation algorithms. Various causes of premature convergence in these methods have been established. Subsequently, formulation of two new evolutionary algorithms has been discussed. The potentiality of these methods has been verified on eight popular test functions.

**Keywords**: Evolutionary Computation; Self-adaptive; Fast Evolutionary Computation; Dynamic Lower Bound

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For further details contact Publications & Research Dissemination Office, IIM Kozhikode, IIMK Campus PO – 673 570, Kozhikode, Kerala, India. Phone: (91) 0495 2809126, Email:prd@iimk.ac.in.

<sup>&</sup>lt;sup>1</sup> Referencing style followed: Journal of Information and Management, Elsevier B.V.