Reviewer Invitation for ESWA-D-14-01337

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Binshan Lin <binshan.lin@lsus.edu>

Thu 6/5/2014 8:13 PM

2014

To:Mohamed Eldessouki <eldesmo@tigermail.auburn.edu>;

Ms. Ref. No.: ESWA-D-14-01337
Title: Fuzzy Partition based Threshold Selection using Metaheuristic Algorithms
Expert Systems With Applications

Dear Dr. Mohamed Eldessouki,

You are invited to review the above-mentioned manuscript that has been submitted for publication in Expert Systems With Applications.

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With kind regards,

Dr. Binshan Lin
BellSouth Professor
Editor-in-Chief, Expert Systems with Applications

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ABSTRACT:
Multilevel thresholding is powerful technique of image segmentation that segment an image into multiple classes. Various entropy based methods are reported in literature for determining optimal thresholds. Among them fuzzy based method proved to be proficient one. However, the computation complexity of multilevel thresholding using fuzzy entropy increases with increase in number of levels. To improve the computational efficiency, this paper presents fuzzy partition based multilevel thresholding problem using Gravitational Search Algorithm (GSA) and Artificial Bee Colony (ABC). These methods have been adopted to maximize the fuzzy entropy of an image. The performance of these methods are investigated on wide variety of standard images using different measures. Experimental results show the superiority of proposed methods over particle swarm optimization and genetic algorithm in terms of entropy, solution quality, stability and computation time.

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