1086-49-1194   **Mahdi Zarei*** (`mahdizarei@students.ballarat.edu.au`), University drive, Mount Helen, PO Box 663, Ballarat, Victoria 3353, Australia, and **Hijran Mirzayeva** (`hijranmirzayeva@students.ballarat.edu.au`), University drive, Mount Helen, PO Box 663, Ballarat, Victoria 3353, Australia. *Optimization of classifiers' parameters based on pso/sa algorithms for classification of fMRI data.*

Determining classifiers' parameters is one of the scientific challenges. This paper reports a novel hybrid optimization algorithm for optimization of classifiers' parameters. Proposed algorithm finds optimal values of discrete and continuous parameters of classifier using particle swarm optimization algorithm and simulated annealing algorithms. We apply the proposed algorithm to an fMRI data set and compare it with other algorithms. (Received September 20, 2012)

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