Abstract

Since the breast cancer has become one of the main reasons of death in women especially in the developed countries, there have been done many research for breast cancer diagnosis. Although researchers have recently proposed many methods by using intelligent approaches for diseases diagnosis, a few of them fulfill the need of high accuracy. In this paper, the most popular swarm intelligence algorithms PSO, ICA, FA and IWO are applied to diagnosis the breast cancer. The experimental results show that swarm intelligence approach can be applied for breast cancer diagnosis with high accuracy. Moreover, FA can diagnose the breast cancer more accurate than other swarm intelligence methods compared in this paper.

References

2. Blum, C., Li, X. 2008. Swarm intelligence in optimization, in: C. Blum, D. Merkle (Eds.),
19. Zwitter, M. and Soklic, M. (2015) University Medical Centre, Institute of Oncology,

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