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As a result, the *liver* is the primary target organ for the toxic effects of *As*. The liver is also the primary site of *As* metabolism and detoxification.

Figure 10 displays a 3D brain model with clusters of significant differences in gray matter volume. The clusters are color-coded by size: small (blue), medium (orange), and large (red). A legend on the right provides details: "small (blue)" for < 100 mm<sup>3</sup>, "medium (orange)" for 100-1000 mm<sup>3</sup>, and "large (red)" for > 1000 mm<sup>3</sup>. The x-axis ranges from -15 to 55, the y-axis from -20 to 50, and the z-axis from 10 to 60. A coordinate system is shown at the bottom left.

Figure 1. The effect of the number of nodes on the performance of the proposed algorithm. The proposed algorithm is compared with the standard genetic algorithm (GA) and the differential evolution (DE) algorithm. The proposed algorithm is able to find the global optimum solution in all cases, while the GA and DE algorithms are unable to do so.

Figure 10. The effect of the number of hidden layers on the performance of the proposed model. The proposed model with two hidden layers has the best performance.

to student programs and services is to be directed to The Committee.

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