IMPROVING NEGATIVE SELECTION ALGORITHM IN ARTIFICIAL IMMUNE SYSTEMS FOR COMPUTER VIRUS DETECTION

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TÓM TẮT:

In Artificial Immune Systems (AIS), negative selection algorithms are used widely. This paper presents the author's research in improving the negative selection algorithm to increase the performance of AIS applications for detecting computer virus. Our algorithm's time complexity is equal to and its space complexity is less than those mentioned in [7]. Furthermore, these complexities are irrelevant to the size of detector set used. This new valuable characteristic makes it especially suitable for AISs having ability to detect viruses more accurately even with very large data space.