

Abstract:

The application of the Genetic Algorithms (Gas) to the optimization of the Yagi-Uda antennas will be investigated in this article. The aim is to devise antenna geometrical parameters that allow the antenna to simultaneously improve multiple performances such as gain, sidelobe level, and input impedance. Thus, not only will a new antenna configuration be explored, but the application of the GA to designs with more than one goal will be investigated as well.