

## **A Modification of Inclusion of a Zero of a Function using Interval Method**

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### **ABSTRACT**

Interval method is used for the inclusion of a zero of a function. The Ehrman(EHR) method considers the Newton's iteration in finding the root of a function. This method is modified by using the mid point in the procedure and improved method has a faster convergence rate and less processing time. In this paper, the convergence analysis and the numerical results are shown.

Keywords: Interval analysis, zero of a function, inclusion, CPU time, rate of convergence