

1035-49-1295 **R N Mohapatra*** (ramm@mail.ucf.edu), Department of Mathematics, University of Central Florida, Orlando, FL 32816. *Some Global Optimization Methods and Applications of Inequalities.*

We shall discuss global optimization based on NURBs, Radial basis functions and some applications of Inequalities. We shall also consider the applications of bilinear matrix inequalities for obtaining global optimization. Some extensions of the results of Zhang and Kwong (Jour. Optimization Theory and Applications, 2005) will be considered. (Received September 19, 2007)