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**MOHAMED TAWHID**, Thompson Rivers University

*Solving Nonlinear Complementarity Problem by a Derivative-Free Descent Method*

We consider smooth/nonsmooth nonlinear complementarity Problem (NCP). We show under certain assumptions, any stationary point of the unconstrained minimization problem is already a solution of smooth NCP. Also, we suggest a derivative-free descent algorithm and give conditions for its convergence. Furthermore, we present some preliminary numerical results.