

1096-49-1649

**Nghia T. A. Tran\*** (ttannghia@gmail.com), 1955 Pacific Court, Apt 102, Kelowna, BC V1Y 8B3, Canada. *Coderivative Characterizations of Local Monotonicity with Applications to Variational Systems.*

In this talk we provide various characterizations of local monotonicity in terms of regular and limiting coderivatives, which are new in finite-dimensional and infinite-dimensional frameworks. We also develop effective applications to obtaining Lipschitzian and Holderian continuity of solution maps to conventional models of variational systems and variational conditions in nonlinear programming. (Received September 16, 2013)