Zachary Denton* (zdenton@ncat.edu) and Aghalaya Vatsala. *Iterative Technique for Nonlinear Riemann-Liouville Fractional Differential Equations.* Preliminary report.

Existence and comparison results of the linear and nonlinear Riemann-Liouville fractional differential equations and nonlinear systems of order $q$, $0 < q < 1$, are recalled and modified where necessary. Generalized iterative technique is developed for decomposed nonlinear fractional differential equations of order $q$, using coupled upper and lower solutions. Uniform convergence is proved via weighted sequences. (Received September 24, 2012)