1086-34-1674   **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)