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70122, and Haewon Lee (hlee@dillard.edu), 2601 GENTILLY BLVD, New Orleans, LA 70122.
Stepanov-like Almost Automorphic Solutions of Abstract Fractional Differential Equations with
Nonlocal Initial Conditions.

We consider the existence and uniqueness of Stepanov-like almost automorphic solution of abstract fractional differential equations with nonlocal Initial COnditions:

$$D_t^{\alpha}u(t) = Au(t) + f(t, u(t)), u(0) + g(u) = u_0, \qquad t \ge 0$$

where the linear operator $A : D(A) \subset X \to X$ is the infinitesmal generator of an exponentially stable C_0 -semigroup $\{T(t)\}_{t\geq 0}$ on Banach space X and $f : \mathbb{R} \times X \to X$ satisfies a Lipschitz-type condition with respect to second argument. (Received August 25, 2009)