

**Title:** On the oscillation of certain integral equations

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The authors present conditions under which every nonoscillatory solution  $x$  of the integral equation

$$x(t) = e(t) - \int_c^t (t-s)^{\alpha-1} k(t,s) f(s, x(s)) ds, \quad c > 1, \quad 0 < \alpha \leq 1,$$

satisfies

$$|x(t)| = O(t) \quad \text{as } t \rightarrow \infty, \quad \text{i.e., } \limsup_{t \rightarrow \infty} \frac{|x(t)|}{t} < \infty.$$

They also establish some sufficient conditions to ensure the oscillation of all solutions of this equation. The results obtained extend previous results in the literature, and the technique employed can be applied to some related integral equations that are equivalent to certain fractional differential equations.

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