

# Kesirli Basamaktan Türev içeren İntegro-diferensiyel Denklemler için Salınım Teorisi

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## Konuşma Özeti

In this presentation, we shall give some new oscillation criteria for the nonlinear fractional order integro-differential equations with forcing term  $v(t)$  of form

$$D_a^\alpha x(t) = v(t) - \int_a^t K(t,s)F(s,x(s))ds, \quad 0 < \alpha < 1, \quad \lim_{t \rightarrow a^+} J_a^{1-\alpha} x(t) = b_1,$$

where  $v$ ,  $K$  and  $F$  are continuous functions,  $b_1 \in \mathbb{R}$ , and  $D_a^\alpha$  and  $J_a^{1-\alpha}$  denotes the Riemann-Liouville fractional order differential and integral operators respectively.

**Anahtar Kelimeler:** Fractional integro-differential equations, oscillation theory, Riemann-Liouville operators

## References

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