

**FRACTIONAL INTEGRO-DIFFERENTIAL EQUATIONS IN SPACES OF  
AVERAGE POWER GROWTH FUNCTIONS**

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In this joint talk with Drs. Dinh Thanh Duc and Tran Dinh Phung we will introduce a space of average power growth functions on  $\mathbb{R}_+$ , its characterization, and its applications in studying multi-term Caputo fractional integro-differential equations, multi-term Riemann-Liouville fractional integro-differential equations, and time fractional partial differential equations.