

Special Colloquium



DR. BANGTI JIN OF TEXAS A&M

"An Invitation to Fractional Differential Equations"

Abstract:

In this talk, we consider differential equations with a fractional-order derivative, which arise in many practical applications, e.g., underground flow and material science, and have attracted much interest in the past few decades. We will describe basics of fractional calculus, especially Riemann-Liouville fractional derivative and Caputo fractional derivative and their properties, and discuss the influence of the nonlocal nature of the fractional derivatives on the solution behavior, inverse problems and numerical analysis. These different aspects will be illustrated with two "simple" examples, i.e., time-fractional diffusion problem and fractional Sturm-Liouville problem.

Thursday, March 7th

The 2nd Floor of the Surge Building, Room 284

Tea, Coffee & Cookies at 3:40 p.m.

The Talk Begins at 4:10 p.m.

And Ends at 5:00 p.m.

UCR

Mathematics

Department

UC Riverside

900 University Avenue
Surge Building 2nd Floor
Riverside, CA
92521

Phone: 951-827-3113



Department of
Mathematics