

Bahçeşehir University, Istanbul, Turkey
Analysis & PDE Center, Ghent University, Ghent, Belgium
Institute Mathematics & Math. Modeling, Almaty, Kazakhstan

“Analysis and Applied Mathematics”

Weekly Online Seminar

Seminar leaders:

Prof. Allaberen Ashyralyev (BAU, Istanbul),
Prof. Michael Ruzhansky (UGent, Ghent),
Prof. Makhmud Sadybekov (IMMM, Almaty)

Date: Tuesday, June 20, 2023

Time: 12.00-13.00 (Istanbul) = 11.00-12.00 (Ghent) = 15.00-16.00 (Almaty)

Place: Meeting room of Faculty of Engineering and Natural Sciences,
Bahçeşehir University, D-415

Zoom link: <https://us02web.zoom.us/j/6678270445?pwd=SFNmQUIvT0tRaH-IDaVYrN3l5bzJVQT09>, **Conference ID:** 667 827 0445, **Access code:** 1

Speaker:

Dr. Soheil Salahshour

Bahçeşehir University, Turkey

Title: Fuzzy Differential Equations with Interactive Parameters
(joint work with Dr. Ali Ahmadian)

Abstract: In this talk, we are going to provide new mathematical dynamic systems based on the interactive type of differentiability. To this end, firstly, we provide some well-known definitions and results for interactive calculus which is basically constructed by the joint possibility distribution function. Then, we discuss comprehensively the validity of such dynamic systems. Finally, by solving several illustrative and comparative examples, we end the talk.

Biography:

Soheil Salahshour is a professor at Bahçeşehir University. As a trained mathematician and computer scientist, Soheil has developed a passion for multidisciplinary and interdisciplinary research. He is not only deeply involved in fundamental research in applied fuzzy mathematics, especially fuzzy differential equations, but he was a world pioneer in developing new mathematical models for the real world. His systems based on fuzzy fractional calculus are one of the world's pioneers in this field of fuzzy differential equations.