



From nonlinear analysis to mathematical physics and beyond

The Speaker: Vicentiu D. Radulescu

**University of Craiova, Romania and Institute of
Mathematics of the Romanian Academy, Bucharest**

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Abstract: We are concerned with some models at the interplay between mathematics and the applied sciences. These models are described by various classes of nonlinear partial differential equations. This talk is mainly addressed to graduate students and its topics include the following basic directions: (i) singular problems; (ii) fractals; and (iii) non-Newtonian fluids. We shall conclude with a very celebrated formula inspired by an elementary mathematical problem. I hope to contribute to a higher and higher interest of the students to develop powerful mathematical directions (nonlinear singular/degenerate equations, problems with nonstandard growth) for a better understanding of models arising in mathematical physics and other applied sciences (superconductivity, smart fluids). This talk is developed on the basis of original results in pure and applied nonlinear analysis.

Prof. Vicentiu Radulescu is a Full Professor at the University of Craiova(Romania) and also a Professorial Fellow at the Institute of Mathematics of the Romanian Academy in Bucharest. He published about 350 papers and 12 books with the best publishers in the world. He is a Highly Cited Researcher and has been the Principal Investigator of several research projects.

Organizer: Chao Ji, Department of Mathematics, ECUST