# Special Issue Fractional Order Systems

#### Message from the Guest Editor

It is well known that fractional calculus is recognized since the regular calculus with the first written reference dated in September 1695 in letter from Leibniz to L'Hospital. Nowadays, the fractional calculus has a wide area of applications, for example, physics, chemistry, bioengineering, chaos theory, control systems engineering, and many others. In all those applications we deal, in general, with fractional order systems. Moreover, the fractional calculus plays an important role even in the complex systems and therefore allows us to use a better description of some real-world phenomena. Based on this fact, the fractional order systems are ubiquitous as well as whole real world around us is fractional, not integer one. Due to this reason it is so urgent consider almost all systems as the fractional order systems. This Special Issue is focused on the theory and multidisciplinary applications of fractional order systems in science and engineering, and will accept only high-quality survey, and/or original research papers.

#### Guest Editor

Prof. Dr. Ivo Petráš Faculty of Mining, Ecology, Process Control and Geotechnologies (FBERG), Technical University of Kosice (TUKE), Kosice, Slovakia

#### Deadline for manuscript submissions

closed (30 April 2019)



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#### Editor-in-Chief

Prof. Dr. Francisco Chiclana School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

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