Differential Equations and Asymptotic Analysis: Recent Advances and Applications

Guest Editor:

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Message from the Guest Editor

Many real-world problems in science and engineering, including physical, biological, social phenomena, etc., can be mathematically formulated and rigorously solved by modeling them in terms of linear and nonlinear differential and partial differential equations. The aim of this Special Issue titled "Differential Equations and Asymptotic Analysis: Recent Advances and Applications" is to provide a forum for researchers working in this field to submit and publish their related recent works, both of a theoretical and an applied nature. A major emphasis is placed on the investigation of the asymptotic behavior of solutions and the existence of periodic solutions to these equations or systems of equations, as well as the approximation of the solutions. This is of course rather broad, and includes major parts of linear and nonlinear differential and partial differential equations, difference equations, ergodic theory, the calculus of variations, convex and nonconvex optimization, and much more.

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