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Inverse Problems for Fractional Differential Equations

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Message from the Guest Editor

Real practical scenarios are ubiquitously complex in inverse problems, and the goodness of their modelling depends on the tools used, as well as the quality of the observation dataset. Notwithstanding, clean and perfect data collections are seldom available. In that sense, fractional calculus is a powerful tool to describe the real behavior of practical and complex systems, unless one considers nested or merged simple models. Walking in this avenue, recent reports in the literature have demonstrated the potential of the fractional differential equations for describing the dynamic behavior of geological, mechanical, thermal, electronic, and chemical systems from observations with a certain degree of external and undesired disturbances. Therefore, we happily welcome high-quality manuscripts that address inverse problems using or related to non-integer operators, such as fractional differential equations, fractional derivatives, fractional transforms, and fractional models, to mention a few. We hope that this initiative is of interest to you, and we encourage you to submit your current research to be included in the Special Issue.