

# Special Issue

## Recent Advances in Fixed Point and Best Proximity Point Problems and Their Applications

### Message from the Guest Editors

The main goal of this Special Issue is to gather the recent results and discussion around research in nonlinear (functional) analysis, with a particular interest in the improvements to the theoretical side of fixed point theory that may play a crucial role in the solution of real-world problems. The fixed point  $f(x)=x$  equation is equivalent to  $F(x)=0$  where  $F(x)=x-f(x)$ . Thus, the concrete solution of such equations takes "fixed point theory" into account. In cases where it is not possible to solve such a problem, any approximative solution is also worth considering and can be identified through the best proximity point theory. Roughly speaking, best proximity means the minimal value of  $d(x, f(x))$  if  $f(x)$  is not equal to  $x$ . These approaches help us to overcome the difficulties arising in the study and computational simulation of nonlinear analysis. For the solution of the problems and/or to identify better solutions, researcher refine the existing axioms and requirements. In this Special Issue, we aim to explore the trends in the solutions of real-world problem, in particular by using the fixed/best-proximity point theory.

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### Deadline for manuscript submissions

closed (31 December 2019)



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The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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### Editor-in-Chief

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