

Editorial

Editorial Conclusion for the Special Issue “Fixed Point Theory and Computational Analysis with Applications”

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Fixed point theory is a fascinating subject that has a wide range of applications in many areas of mathematics. Brouwer’s fixed point theorem and Banach contraction principle are undoubtedly the most important and applicable fixed point theorems. Many authors are dedicated to the generalization of the various directions of well-known fixed point theorems. The rapid development of fixed point theory and its applications has led to many academic papers studying the importance of its promotions and applications in nonlinear analysis, optimization problems, integral and differential equations and inclusions, dynamic system theory, control theory, signal and image processing, economics, game theory, etc.

Plenty of problems caused by the real world can be reduced to solving mathematical models by applying computational analysis. During the previous more than seven decades, computational analysis has made more important contributions to improve our understanding of the real world around us in various fields, such as immunological systems, computational systems, electrical and mechanical structures, financial markets, information and knowledge management, highway transportation networks, telecommunication networks, economics and so on.

The main purpose of this Special Issue is to pay more attention to the recent advances in the new originality of fixed point theory, computational analysis and their applications in integrating basic science into the real world. For more information, please visit the website: https://www.mdpi.com/journal/symmetry/special_issues/Fixed_Point_Computational.

All guest editors have done their best to make this Special Issue perfect. The guest editors were selective to have a comprehensive review process for each submission based on the journal’s policy and guidelines. In this Special Issue, we have received 128 submissions and after a comprehensive review process, 25 high-quality works have been accepted for publication (i.e., the acceptance rate was around 0.195). These accepted papers in this Special Issue can be divided according to the following scheme considering their main purposes:

- Fixed point theory and applications (see [1–16]);
- Computational analysis and applications (see [1,2,7,9,12,15–25]).

We hope that interested researchers and practitioners can read these accepted papers in this Special Issue and will find many inspirations for future work in the exciting areas of fixed point theory and computational analysis.

In conclusion, this Special Issue has undoubtedly succeeded in our original intention. Obviously, this Special Issue has shed new light on several important issues and raised new problems. We believe this will inspire future developments in fixed point theory, computational analysis and their applications. Finally, we would like to express our hearty thanks to the editorial team and the reviewers of Symmetry, particularly the Editor-in-Chief Prof. Dr. Sergei D. Odintsov and Assistant Editor Dalia Su, for their great support throughout the editing process of our Special Issue.



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