

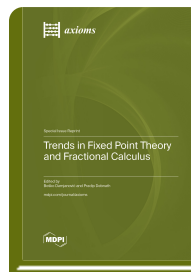
*Special Issue Reprint*

## **Trends in Fixed Point Theory and Fractional Calculus**

[www.mdpi.com/books/reprint/11562](http://www.mdpi.com/books/reprint/11562)

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ISBN 978-3-7258-5245-1 (Hardback)  
ISBN 978-3-7258-5246-8 (PDF)



This reprint, *Trends in Fixed Point Theory and Fractional Calculus*, brings together a carefully curated collection of contributions that highlight recent developments in two dynamic areas of modern mathematical research. Fixed point theory remains a cornerstone of nonlinear analysis, with wide applications to operator theory, variational inequalities, and functional equations. Fractional calculus, by extending differentiation and integration to non-integer orders, has emerged as a powerful framework for modeling memory effects and hereditary dynamics in complex systems.

The reprint illustrates the growing synergy between these fields, showcasing advances in theoretical constructs such as contractive mappings, modular and bipolar metric spaces, enriched contractions, and set-valued mappings. At the same time, it presents practical applications to nonlinear integral equations, fractional differential systems, and stability problems relevant to physics and engineering.

Contributions from international experts reflect both rigor and innovation, addressing abstract generalizations in mathematical spaces alongside real-world problem-solving. The works demonstrate the breadth and depth of current research and open avenues for further exploration across mathematics and applied sciences. This reprint will serve as a valuable reference for researchers, graduate students, and professionals seeking to engage with the latest fixed point theory and fractional calculus trends.

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