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Journal overview

For authors

For reviewers

For editors

Table of Contents

Special Issues

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On this page

Abstract

Introduction

Conclusion

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Conflicts of Interest

Authors' Contributions

References

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Abstract

Some researchers have combined two powerful techniques to establish a new method for solving fractional-order differential equations. In this study, we used a new combined technique, known as the Elzaki residual power series method (ERPSM), to offer approximate and exact solutions for fractional multipantograph systems (FMPS) and pantograph differential equations (PDEs). In Caputo logic, the fractional-order derivative

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