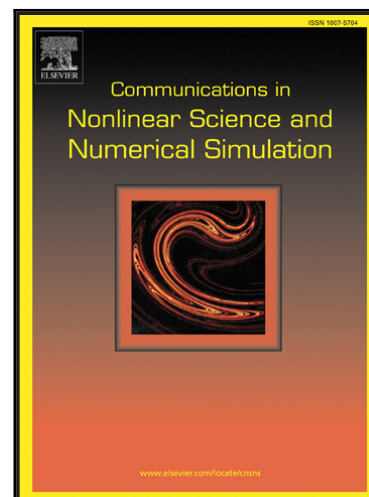


Accepted Manuscript

Analytical lie group approach for solving fractional integro-differential equations

S. Pashayi, M.S. Hashemi, S. Shahmorad

PII: S1007-5704(17)30101-6
DOI: [10.1016/j.cnsns.2017.03.023](https://doi.org/10.1016/j.cnsns.2017.03.023)
Reference: CNSNS 4150



To appear in: *Communications in Nonlinear Science and Numerical Simulation*

Received date: 11 November 2015
Revised date: 8 August 2016
Accepted date: 29 March 2017

Please cite this article as: S. Pashayi, M.S. Hashemi, S. Shahmorad, Analytical lie group approach for solving fractional integro-differential equations, *Communications in Nonlinear Science and Numerical Simulation* (2017), doi: [10.1016/j.cnsns.2017.03.023](https://doi.org/10.1016/j.cnsns.2017.03.023)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- Invariant solutions of fractional integro-differential (FID) equations are considered.
- Lie symmetries of FID equations are obtained.
- A new prolongation formula to obtain the infinitesimal of FID equations is introduced.
- The introduced analytic method is successfully applied for some examples to illustrate the method.

Download English Version:

<https://daneshyari.com/en/article/5011418>

Download Persian Version:

<https://daneshyari.com/article/5011418>

[Daneshyari.com](https://daneshyari.com)