Accepted Manuscript

Modified fractional logistic equation

Mirko D'Ovidio, Paola Loreti, Sima Sarv Ahrabi

 PII:
 S0378-4371(18)30439-4

 DOI:
 https://doi.org/10.1016/j.physa.2018.04.011

 Reference:
 PHYSA 19443

 To appear in:
 Physica A

 Received date :
 21 November 2017

 Revised date :
 9 March 2018



Please cite this article as: M. D'Ovidio, P. Loreti, S.S. Ahrabi, Modified fractional logistic equation, *Physica A* (2018), https://doi.org/10.1016/j.physa.2018.04.011

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.

ACCEPTED MANUSCRIPT

*Highlights (for review)

- A series of Mittag-Leffler functions, behaviour of which is close to the solution of fractional logistic equation is introduced.
- A fractional integro-differential equation (modified fractional logistic equation) with differential operator of Caputo type is represented, which is proven to be satisfied by the series of Mittag-Leffler functions.
- The order of the modified fractional logistic equation is determined based on the study of the asymptotic behaviour of the solution.

Download English Version:

https://daneshyari.com/en/article/7375185

Download Persian Version:

https://daneshyari.com/article/7375185

Daneshyari.com