Accepted Manuscript

Using Zipf-Mandelbrot's law and graph theory to evaluate animal welfare

Caprice G.L. de Oliveira, José G.V. Miranda, Hilton F. Japyassú, Charbel N. El-Hani

PII: S0378-4371(17)30858-0
DOI: https://doi.org/10.1016/j.physa.2017.08.127
Reference: PHYSA 18573

To appear in: *Physica A*

Received date : 16 March 2017
Revised date : 29 June 2017

Please cite this article as: C.G.L. de Oliveira, J.G.V. Miranda, H.F. Japyassú, C.N. El-Hani, Using Zipf-Mandelbrot's law and graph theory to evaluate animal welfare, *Physica A* (2017), https://doi.org/10.1016/j.physa.2017.08.127

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)**

Highlights

We use Zipf exponent to evaluate welfare in animals housed in Zoos and Wildlife Rescue Centers.

Using Graphs Theory we were able to compare welfare in to different conditions of housed animals.

We present a new method to evaluate complexity of animal behaviour based on graph theory and ethograms.

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/7376494

Download Persian Version:

https://daneshyari.com/article/7376494

Daneshyari.com