

# Table of Contents

## International Journal of System Dynamics Applications

Volume 7 • Issue 4 • October-December-2018 • ISSN: 2160-9772 • eISSN: 2160-9799

*An official publication of the Information Resources Management Association*

### Research Articles

- 1     **Modelling the Dynamics of Cow-Calf Dyadic Behavior**  
Luciandra Macedo de Toledo, Instituto de Zootecnia, APTA/SAA, São Paulo, Brazil  
Thayná Barcelos Fernandes, Mestrado em Produção Animal Sustentável, Instituto de Zootecnia, APTA/SAA, São Paulo, Brazil  
Mateus José Rodrigues Paranhos da Costa, Faculdade de Ciências Agrárias e Veterinárias, UNESP, São Paulo, Brazil  
Luis Alberto Ambrósio, Instituto de Zootecnia, APTA/SAA, São Paulo, Brazil
- 20    **A System Dynamics Model for Studying the Policies of Improvement of Chicken Industry Supply Chain**  
Ehsan Gale Gafi, Department of Industrial Engineering, Mazandaran University of Science and Technology, Babol, Iran  
Nikbakhsh Javadian, Department of Industrial Engineering, Mazandaran University of Science and Technology, Babol, Iran
- 38    **Public Policymaking Framework Based on System Dynamics and Big Data**  
Feldiansyah Bakri Nasution, Universiti Teknologi Malaysia, Johor Bahru, Malaysia  
Nor Erne Bazin, Faculty of Computing, Universiti Teknologi Malaysia, Johor Bahru, Malaysia  
Rika Rosalyn, Regional Revenue Service of Riau Province, Pekanbaru, Indonesia  
Hasanuddin Hasanuddin, Universitas Riau, Pekanbaru, Indonesia
- 54    **Enabling the Interoperability of the Modelica DSL and Matlab Simulink towards the Development of Self-Adaptive Dynamic Systems**  
Nikolay Tcholtchev, Fraunhofer Institute for Open Communication Systems FOKUS, Berlin, Germany  
Grit Dudeck, Fraunhofer Institute for Open Communication Systems FOKUS, Berlin, Germany  
Michael Wagner, Fraunhofer Institute for Open Communication Systems FOKUS, Berlin, Germany  
Christian Hein, Fraunhofer Institute for Open Communication Systems FOKUS, Berlin, Germany  
Arun Prakash, Fraunhofer Institute for Open Communication Systems FOKUS, Berlin, Germany  
Tom Ritter, Fraunhofer Institute for Open Communication Systems FOKUS, Berlin, Germany
- 76    **Application of System Engineering to Project Management: How to View Their Relationship**  
Brian J. Galli, Long Island University, Brookville, USA
- 98    **Systems Thinking and Systems Analysis in Six Sigma: A Relational Review**  
Brian J. Galli, Long Island University, Brookville, USA

### COPYRIGHT

The **International Journal of System Dynamics Applications (IJSDA)** (ISSN 2160-9772; eISSN 2160-9799), Copyright © 2018 IGI Global. All rights, including translation into other languages reserved by the publisher. No part of this journal may be reproduced or used in any form or by any means without written permission from the publisher, except for noncommercial, educational use including classroom teaching purposes. Product or company names used in this journal are for identification purposes only. Inclusion of the names of the products or companies does not indicate a claim of ownership by IGI Global of the trademark or registered trademark. The views expressed in this journal are those of the authors but not necessarily of IGI Global.

The *International Journal of System Dynamics Applications* is indexed or listed in the following: ACM Digital Library; Bacon's Media Directory; Cabell's Directories; DBLP; Google Scholar; INSPEC; JournalTOCs; MediaFinder; ProQuest Advanced Technologies & Aerospace Journals; ProQuest Computer Science Journals; ProQuest Illustrata: Technology; ProQuest SciTech Journals; ProQuest Technology Journals; The Standard Periodical Directory; Ulrich's Periodicals Directory; Web of Science; Web of Science Emerging Sources Citation Index (ESCI)