# **Table of Contents**

# **Journal of Database Management**

Volume 32 • Issue 1 • January-March-2021 • ISSN: 1063-8016 • eISSN: 1533-8010

## **Guest Editorial Preface**

### vii Blockchain and Smart Contract: A Review

Hemang Subramanian, Florida International University, USA Rong Liu, Stevens Institute of Technology, USA

## **Research Articles**

#### 1 On Elastic Incentives for Blockchain Oracles

Renita M. Murimi, University of Dallas, USA Grace Guiling Wang, New Jersey Institute of Technology, USA

## 27 Usurping Double-Ending Fraud in Real Estate Transactions via Blockchain Technology

Atefeh Mashatan, Ryerson University, Canada Victoria Lemieux, University of British Columbia, Canada Seung Hwan (Mark) Lee, Ryerson University, Canada Przemysław Szufel, SGH Warsaw School of Economics, Poland Zachary Roberts, Ryerson University, Canada

## 49 Enhancing the Retailer Gift Card via Blockchain: Trusted Resale and More

Yuan Lu, Institute of Software, Chinese Academy of Sciences, China Qiang Tang, New Jersey Institute of Technology, USA Guiling Wang, New Jersey Institute of Technology, USA

# 69 Privacy Preserving Data Mining as Proof of Useful Work: Exploring an Al/Blockchain Design

Hjalmar K. Turesson, York University, Canada Henry Kim, blockchain.lab, York University, Canada Marek Laskowski, blockchain.lab, York University, Canada Alexandra Roatis, Aion Network, Canada

### **COPYRIGHT**

The Journal of Database Management (JDM) (ISSN 1063-8016; eISSN 1533-8010), Copyright © 2021 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 Journal of Database Management is indexed or listed in the following: ABI/Inform; ACM Digital Library; Aluminium Industry Abstracts; Australian Business Deans Council (ABDC); Bacon's Media Directory; Burrelle's Media Directory; Cabell's Directories; Ceramic Abstracts; Compendex (Elsevier Engineering Index); Computer & Information Systems Abstracts; Corrosion Abstracts; CSA Civil Engineering Abstracts; CSA Illumina; CSA Mechanical & Transportation Engineering Abstracts; Current Contents®/Engineering, Computing, & Technology; DBLP; DEST Register of Refereed Journals; EBSCOhost's Business Source; EBSCOhost's Computer & Applied Sciences Complete; EBSCOhost's Computer Science Index; EBSCOhost's Computer Source; EBSCOhost's Computer Science Index; EBSCOhost's Computer Source; EBSCOhost's Computer Science Index; EBSCOhost's Computer Science Materials Abstracts; East Directory of Publications & Broadcast Media; GetCited; Google Scholar; INSPEC; Internet & Personal Computing Abstracts; ISBIB; JournalTOCs; Library & Information Science Abstracts (LISA); Library Literature & Information Sciences; Materials Business File - Steels Alerts; MediaFinder; Norwegian Social Science Data Services (NSD); PubList.com; SCOPUS; Solid State & Superconductivity Abstracts; The Index of Information Systems Journals; The Standard Periodical Directory; UGC-CARE List (India); Ulrich's Periodicals Directory; Web of Science; Web of Science Science Citation Index Expanded (SCIE)