

# Table of Contents

## International Journal of Energy Optimization and Engineering

Volume 8 • Issue 4 • October-December-2019 • ISSN: 2160-9500 • eISSN: 2160-9543

*An official publication of the Information Resources Management Association*

### Research Articles

- 1     **Smart Grid Implementation of the Industrial Sector A Case of Economic Dispatch**  
Amam Hossain Bagdadee, Hohai University, Nanjing, China  
Li Zhang, Hohai University, Nanjing, China
- 15    **Sectionalizing and Redundancy of the 0.38 kV Ring Electrical Network: Mathematical Modeling Schematic Solutions**  
Alexander Vinogradov, Federal Scientific Agroengineering Centre VIM, Moscow, Russian Federation  
Alina Vinogradova, Federal Scientific Agroengineering Centre VIM, Moscow, Russian Federation  
Vadim Bolshev, Federal Scientific Agroengineering Centre VIM, Moscow, Russian Federation  
Alexander Ivanovich Psarev, Orel State Agrarian University, Oryol, Russian Federation
- 39    **Design and Study of Hydroelectric Power Plant by Using Overshot and Undershot Waterwheels**  
Jamal A. Hameed, Tikrit University, Tikrit, Iraq  
Amer T Saeed, Tikrit University, Tikrit, Iraq  
Mugdad H. Rajab, Tikrit University, Tikrit, Iraq
- 60    **The Efficient and Viable Country-Oriented Attainment of Absolute Environmental Sustainability: A Demonstration on the ESI 2002**  
Tatiana Tambouratzis, University of Piraeus, Piraeus, Greece  
Nikos Hatziefthimiou, Department of Industrial Management & Technology, University of Piraeus, Piraeus, Greece
- 105   **A Review of the Smart Grid Concept for Electrical Power System**  
Amam Hossain Bagdadee, Hohai University, Nanjing, China  
Li Zhang, Hohai University, Nanjing, China

### COPYRIGHT

The **International Journal of Energy Optimization and Engineering (IJEEO)** (ISSN 2160-9500; eISSN 2160-9543), Copyright © 2019 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 Energy Optimization and Engineering* is indexed or listed in the following: ACM Digital Library; Bacon's Media Directory; Cabell's Directories; DBLP; Google Scholar; IAOR Online; IndexCopernicus; INSPEC; JournalTOCs; MediaFinder; RePEc; The Standard Periodical Directory; Ulrich's Periodicals Directory; Web of Science; Web of Science Emerging Sources Citation Index (ESCI)