International Journal of Energy Optimization and Engineering

July-September 2015, Vol. 4, No. 3

Table of Contents

Special Issue Part 1 on the Occasion of International Renewable Energy Congress 2014 (IREC 2014)

GUEST EDITORIAL PREFACE

vi Gerhard-Wilhelm Weber, Institute of Applied Mathematics, Middle East Technical University, Ankara, Turkey A. Sevtap Selçuk Kestel, Institute of Applied Mathematics, Middle East Technical University, Ankara, Turkey

Research Articles

1 **Optimization of In-Wheel Permanent Magnet Synchronous Motor for Electric Car** Hejra Msaddek, CES Laboratory, National Engineering School of Sfax, University of Sfax, Sfax, Tunisia Ali Mansouri, CES Laboratory, National Engineering School of Sfax, University of Sfax, Sfax, Tunisia Trabelsi Hafedh, CES Laboratory, National Engineering School of Sfax, University of Sfax, Sfax, Tunisia

18 Energy Management for Photovoltaic Irrigation with a Battery Bank Imene Yahyaoui, Industrial Engineering School, University of Valladolid, Valladolid, Spain Maher Chaabene, Control of Electrical Machines and Power Networks Unit (CMERP), University of Sfax, Sfax, Tunisia Fernando Tadeo, Industrial Engineering School, University of Valladolid, Valladolid, Spain

33 Eigenvalue Assignments in Multimachine Power Systems using Multi-Objective PSO Algorithm Yosra Welhazi, CEM Laboratory, National Engineering School of Sfax, University of Sfax, Sfax, Tunisia Tawfik Guesmi, CEM Laboratory, National Engineering School of Sfax, University of Sfax, Sfax, Tunisia Hsan Hadj Abdallah, CEM Laboratory, National Engineering School of Sfax, University of Sfax, Sfax, Tunisia

49 Renewable Energy Management with a Multi-Agent System

Wahiba Ben Abdessalem, RIADI-GDL Laboratory ENSI, College of Computer and Information Technology, Taif University, Taif, Saudi Arabia

Sami Karaa, Energy Efficiency Department, Société Tunisienne d'Electricité et de Gaz (STEG), Tunis, Tunisia Amira S. Ashour, Department of Electronics and Electrical Communications Engineering, Tanta University, Tanta, Egypt & College of Computer and Information Technology, Taif University, Taif, Saudi Arabia

Copyright

The **International Journal of Energy Optimization and Engineering (IJEOE)** (ISSN 2160-9500; eISSN 2160-9543), Copyright © 2015 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: 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