International Journal of Energy Optimization and Engineering

January-March 2014, Vol. 3, No. 1

Table of Contents

Special Issue on Mathematical and Heuristic Modeling and Optimization of Energy Systems, Part 2

GUEST EDITORIAL PREFACE

iv N. I. Voropai, Energy Systems Institute, Siberian Branch of the Russian Academy of Sciences, Irkutsk, Russia

RESEARCH ARTICLES

- 1 Generation Scheduling Based on Two-Level Optimization Problem
 - I. A. Nechaev, Energy Systems Institute, Siberian Branch of the Russian Academy of Sciences, Irkutsk, Russia S.I. Palamarchuk, Energy Systems Institute, Siberian Branch of the Russian Academy of Sciences, Irkutsk, Russia
- 12 Models of Imperfect Competition in Analysis of Siberian Electricity Market

N.I. Aizenberg, Energy Systems Institute, Siberian Branch of the Russian Academy of Sciences, Irkutsk, Russia M.A. Kiseleva, Energy Systems Institute, Siberian Branch of the Russian Academy of Sciences, Irkutsk, Russia

- PMU Placement Based on Heuristic Methods, when Solving the Problem of EPS State Estimation
 - I. N. Kolosok, Energy Systems Institute, Siberian Branch of the Russian Academy of Sciences, Irkutsk, Russia E. S. Korkina, Energy Systems Institute, Siberian Branch of the Russian Academy of Sciences, Irkutsk, Russia A. M. Glazunova, Energy Systems Institute, Siberian Branch of the Russian Academy of Sciences, Irkutsk, Russia
- 65 Optimal Training of Artificial Neural Networks to Forecast Power System State Variables

Victor Kurbatsky, Energy Systems Institute, Siberian Branch of the Russian Academy of Sciences, Irkutsk, Russia Denis Sidorov, Energy Systems Institute, Siberian Branch of the Russian Academy of Sciences, Irkutsk, Russia Nikita Tomin, Energy Systems Institute, Siberian Branch of the Russian Academy of Sciences, Irkutsk, Russia Vadim Spiryaev, Energy Systems Institute, Siberian Branch of the Russian Academy of Sciences, Irkutsk, Russia

- 83 Intelligent Computing on the Basis of Cognitive and Event Modeling, and Its Application in Energy Security Research
 - L. V. Massel, Energy Systems Institute, Siberian Branch of the Russian Academy of Sciences, Irkutsk, Russia V. L. Arshinsky, Energy Systems Institute, Siberian Branch of the Russian Academy of Sciences, Irkutsk, Russia A. G. Massel, Energy Systems Institute, Siberian Branch of the Russian Academy of Sciences, Irkutsk, Russia
- 92 Thermal Properties Study of a Solar Water Heater Tank with a Mantle Exchanger

Mourad Chikhi, Unite of Solar Equipment Development UDES/EPST CDER, Bou-Ismail, Algeria Rabah Sellami, Unite of Solar Equipment Development UDES/EPST CDER, Bou-Ismail, Algeria Nachida Kasbadji Merzouk, Unite of Solar Equipment Development UDES/EPST CDER, Bou-Ismail, Algeria

101 Optimal Operational Strategy for PV/Wind-Diesel Hybrid Power Generation System with Energy Storage Vincent Anayochukwu Ani, Department of Electronic Engineering, University of Nigeria, Nsukka, Enugu State, Nigeria

Copyright

The International Journal of Energy Optimization and Engineering (IJEOE) (ISSN 2160-9500; eISSN 2160-9543), Copyright © 2014 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 witten 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 neccessarily 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