2016 IEEE Online Conference on **Green Communications** (OnlineGreenComm 2016)

Piscataway, New Jersey, USA 14 – 17 November 2016



IEEE Catalog Number: CFP16GRN-POD ISBN:

978-1-5090-2754-5

Copyright © 2016 by the Institute of Electrical and Electronics Engineers, Inc All Rights Reserved

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

***This publication is a representation of what appears in the IEEE Digital Libraries. Some format issues inherent in the e-media version may also appear in this print version.

 IEEE Catalog Number:
 CFP16GRN-POD

 ISBN (Print-On-Demand):
 978-1-5090-2754-5

 ISBN (Online):
 978-1-5090-2753-8

ISSN: 2375-8171

Additional Copies of This Publication Are Available From:

Curran Associates, Inc 57 Morehouse Lane Red Hook, NY 12571 USA Phone: (845) 758-0400

Fax: (845) 758-2633

E-mail: curran@proceedings.com Web: www.proceedings.com









Table of Contents

Title	Authors	Page
Grid Energy Consumption of Mixed-Traffic Cellular Networks with Renewable Energy Sources	Hussein Al Haj Hassan; Kamal Deep Singh; Loutfi Nuaymi	1
Online QoS-Aware Charging Scheduling in Battery Swapping Stations under Dynamic Energy Pricing	Luhao Wang; Yanzhi Wang; Massoud Pedram	N/A
Spectral- and Energy-Efficient Transmission Over Frequency- Orthogonal Channels	Liang Dong	13
Lifetime Maximization of Connected Differentiated Target Coverage in Energy Harvesting Directional Sensor Networks	Xiaojian Zhu	21
Architecture Exploration of Multi-source Energy Harvester for IoT nodes	Philip-Dylan Gleonec; Jeremy Ardouin; Matthieu Gautier; Olivier Berder	27
User Selection Scheme for Amplify-and-Forward Relaying with Zero Forcing	Abdurrahman Alfitouri; Khairi A. Hamdi	33
Using IEC 61850 and IEEE WAVE Standards in Ad-Hoc Networks for Electric Vehicle Charging Management	Paul Nsonga; S. M. Suhail Hussain; Ikbal Ali; Taha Selim Ustun	39
Asynchronous Delivery Oriented Efficient Resource Allocation in TWDM-PON Enabled Fronthaul	Gang Wang; Rentao Gu; Jiawei Zhang; Hui Li; Ji Yuefeng	45
Peak Load Reduction of Multiple Water Heaters: Respecting Consumer Comfort and Money Savings	Alexander Belov; Alexandr Vasenev; Vadim Kartak; Nirvana Meratnia; Paul Havinga	51
Light Trail Design for Energy-efficient Traffic Grooming in Light-trail Optical WDM Networks	Hwa-Chun Lin; Li-Yun Chang; Yuan-Xi Zhuang	58
Agent-based Charging Scheduling of Electric Vehicles	Armin Ghasem Azar; Rune Hylsberg Jacobsen	64
Green OFDMA Resource Allocation in Cache-Enabled CRAN	Reuben G. Stephen; Rui Zhang	70