



IEEE Latin America Transactions

APRIL 2021, Volume 19 Issue 4

IEEEExplore, DOI, ISI, ISSN 1548-0992

REGULAR ISSUE: Electronics, Energy and Computing

Table of Contents	524
Harmonic Distortion Characterization in Groups of Distribution Networks Applying the IEEE Standard 519-2014	
L. Marrero, L. García-Santander, L. Hernández-Callejo, P. Bañuelos-Sánchez, and V. Jara.....	526
Optimal Transmission Switching Considering N-1 Contingencies on Power Transmission Lines	
S. Pinzón, D. Carrión and E. Inga.....	534
Component for Renal Carcinoma Detection in Abdominal Tomography Applying Watersheds Transform in the XAVIA PACS System	
A. Orellana, L.M. García, Y. Feijoo, G. Ceruto and E.E. Cardero.....	542
Ethanol Fuel Demand Forecasting in Brazil Using a LSTM Recurrent Neural Network Approach	
J. A. Puentes, C. O. Ribeiro, E. A. Ruelas and V. Figueroa.....	551
Evaluation and Proposal of a Lightweight Reconfigurable Accelerator for Heterogeneous Multicore	
F. C. Silva-Junior, I. Saraiva-Silva and R. Pezzuol-Jacobi.....	559
How to Focus ASAR Raw Data of the ENVISAT Satellite with a Low Computacional Cost Tool	
I. Franchi and A. Zozaya.....	567
Space Vector Modulation for Three-Phase Multilevel Switched-Capacitor Inverter	
Felipe Bovolini-Grigoletto.....	575
Cardiac Arrhythmia Classification based on the RMS Signal and Cyclostationarity	
N. Gómez and M. Noriega.....	584
A Systematic Review on Product Recognition for Aiding Visually Impaired People	
A. Machado, R. Veras, K. Aires and L. Britto Neto.....	592
Extending the Integrity Constraint Support in a Graph Database	
F. Reina, A Huf, D. Presser and F. Siqueira.....	604
Forecasting Solar Power Output Generation: A Systematic Review with the Proknow-C	
J. N. Maciel, J. J. G. Ledesma and O. H. Ando-Junior.....	612
Using an Educational Mobile Application for Learning the Essence 1.2 Kernel Alphas	
E. M. Jiménez-Hernández, H. Oktaba, F. Díaz-Barriga, and M. Piattini.....	625
Ecuadorian Regulatory Traffic Sign Detection by Using HOG Features and ELM Classifier	
M. Flores-Calero, M. Aldás, J. Vargas and M. J. Ayala.....	634
Analytical Expression for the Bit Error Rate of a Filtered Multitone Modulation Scheme (FMT) through a Multipath Fading Channel	
M. Ramírez, A. Serna, and S. Molano.....	643

Heuristics Applied to Minimization of the Maximum-Diameter Clustering Problem	
J. A. de Moura-Brito, A. C. Fadel, G. Silva-Semaan and F. M. Tavares-Montenegro.....	652
Current Status and Perspectives of the Electric Sector in Brazil	
L. I. Chaves, C. A. F. Murari, C. A. de Castro-Junior, M. J. da Silva, M. Nanni, P. A. Sobreira- Junior, S. N. M. de Souza and C. E. C. Nogueira.....	660
A Novel Framework Based on Mixed-Integer Linear Programming to Restore a Disintegrated Power Grid after Cascading Failures	
J. Beyza, J. M. Yusta, H. F. Ruiz-Paredes and Eduardo Garcia-Paricio.....	669
A DEVS Based Methodological Framework for Reinforcement Learning Agent Training	
E. Beccaria, V. Bogado and J. A. Palombarini.....	679
Cluster-Based Classification of Blockchain Consensus Algorithms	
F. Aponte, L. Gutierrez, M. Pineda, I. Meriño, A. Salazar , and P. Wightman.....	688
An MPI-based MPSoC Platform in FPGA	
R. Uhlendorf, E. Silva, F. Viel and C. Zeferino.....	697