



IEEE Latin America Transactions

DECEMBER 2020, Volume 18 Issue 12

IEEEXplore, DOI, ISI, ISSN 1548-0992

REGULAR ISSUE: Electronics, Energy and Computing

Table of Contents	2027
Experts Opinion-Based Bayesian Inference for the Coverage Factor in BOP Reliability	
F. A. C. Duim, P. A. A. Garcia, P. L. C. Saldanha, C. M. C. Jacinto and G. B. A. Lima.....	2029
Development of a Biochemical Oxygen Demand Incubator Prototype Based on Thermoelectric Effect with Monitoring Systems.	
S. C. Chamby Espejo, S. Silva-de Souza and O. H. Ando-Junior.....	2037
An IEEE 1451 Standard-Based Plug-and-Play Architecture to Empower the Internet of Things	
M. Santos-Aguiar, F. H. Cerdeira-Ferreira, E. Pagani-Julio, B. J. Dembogurski, G. Silva-Semaan, and E. Franco-Silva.....	2047
Super-twisting Speed Control of a Brushless Direct Current Motor with Back-EMF Estimation	
A. Y. Alanis, G. Munoz-Gomez and J. Rivera.....	2055
Probabilistic Analysis of Impacts on Distribution Networks Due to the Connection of Diverse Models of Plug-in Electric Vehicles	
G. Coria, F. Penizzotto and A. Romero.....	2063
Communication Network Model for a Computer Management and Control System Implemented Using FIWARE platform: Case Study	
W. Velasquez and M. Filian-Gomez.....	2073
Adequate Sensor Placement Method to Ensure Diagnosability in Interpreted Petri Net	
D. Valencia, D. M. Muñoz-Añasco and F. Enríquez.....	2081
Parallel Performance Analysis of Cyclic Correntropy for Energy-Efficient Wireless Communications	
S. R. M. Melo, H. A. P. Silva, S. X.-de-Souza, L. F. Q. Silveira and A. I. R. Fontes.....	2089
Integration of the Waterfall Model with ISO/IEC/IEEE 29148:2018 for the Development of Military Defense System	
R. R. J. Jardim, M. Santos, E. Neto, E. da Silva and F. de Barros.....	2096
Adaptable Architecture for the Development of Computer Vision Systems In FPGA	
U. Ramos, M. E. Stivanello and M. R. Stemmer.....	2104
Equivalency between Adaptive Notch Filter PLL and Inverse Park PLL By Modeling and Parameter Adjustment	
M. J. da Silva, S. C. Ferreira, J. P. da Silva, M. G. dos Santos, A. L. Paganotti and L. M. Barbosa.....	2112
Designing a Doherty Power Amplifier without Offset Compensation Lines	
U. Malagon-Reyes, J. R. Loo-Yau, D. Ochoa-Armas and L. M. Aguilar-Lobo.....	2122

Sallfus, Library for Satellite Images Fusion on Homogeneous and Heterogeneous Computing architectures	2130
R. J. Medina-Daza, N. E. Vera-Parra and A. O. Restrepo-Rodríguez.....	
Methodology of Measurement of the Opening and Coverage of the Canopy Implementing Artificial Vision Techniques	2138
M. de J. Matuz-Cruz, C. J. García-Aquino, E. Reyes-Sánchez, D. Mújica-Vargas and S. Maza-Villalobos.....	
A Novel Method Based on Regularized Logistic Regression and CCA for P300 Detection Using a Reduced Number of EEG Trials	2147
C. F. Blanco-Díaz and A. F. Ruiz-Olaya.....	
Estimation of the Energy Saving Potentials in Foundry Industries Based on ISO 50001S	2155
J. D. Chaves, M. I. Gallego, F. González, D. A. Aguilar, J. R. Vidal and E. C. Quispe.....	
Evaluating a Dynamic and a Modulo Scheduling-Based Static Approach for Configuration Generation in CGRA Accelerators	2166
L. Fernandes-Ribeiro, F. C. Silva-Junior and I. Saraiva-Silva.....	
Visible Light Positioning and Communication Methods and their Application in the Intelligent Mobility	2174
A. L. R. Gonçalves, A. H. A. Maia, M. R. Santos, D. A. Lima and A. M. Neto.....	
Multi-agent Systems in the Field of Urban E-Mobility: A Systematic Review	2186
D. E. Ruiz de Gauna, C. Villalonga, and L. E. Sánchez.....	
Comparative Study of Methods to Obtain the Number of Hidden Neurons of an Auto-Encoder in a High-Dimensionality Context	2196
H. R. Vega-Gutierrez, C. Castorena, R. Alejo and E. E. Granda-Gutierrez.....	