

# IEEE Latin America Transactions

**NOVEMBER 2018, Volume 16 Issue 11**

**IEEEXplore, DOI, ISI, ISSN 1548-0992**

## **REGULAR ISSUE: Electronics, Energy and Computing**

Table of Contents .....	2671
IoT Protocols Comparison for Wireless Sensors Network Applied to Marine Environment Acoustic Monitoring.	
G. Durante, W. Beccaro, H. E. M. Peres.....	2673
Specification of a Universal Remote Control for Interaction in Residential Environments	
Artur H. Kronbauer, Fabio F. B. Gomes and Jorge Campos.....	2680
Gain-Scheduled Oxygen Concentration Control System for a Bioreactor	
H. Arévalo, F. Sánchez, F. Ruiz, Senior, IEEE, D. Guerrero, D. Patino, Member, IEEE, C.J. Alméciga-Díaz and A. Rodríguez-López.....	2689
TEACCH Methodology-based Web System to Support Learning for Children with Autism	
M. A. C. S. Oliveira, M. C. C. Guebert and P. Nohama.....	2698
Body Posture Visualizer to Support Multimodal Learning Analytics	
R. Munoz, Member, IEEE, T. S. Barcelos, R. Villarroel, R. Guíñez, E. Merino.....	2706
An Opportunistic System to Counteract Fading and Gaussian Interference Effects Under Different Modulation Schemes	
Nathaly Verónica Orozco Garzón, Henry Ramiro Carvajal Mora and Celso de Almeida.....	2716
Neural Adaptive PID Control of a Quadrotor using EFK	
Claudio. D. Rosales, Santiago. R. Tosetti, Carlos. M. Soria and Francisco.G. Rossomando.....	2722
Micro-Coaxial Slot Antenna to Treat Bone Tumors by Thermal Ablation: Theoretical and Experimental Evaluation	
C.J. Trujillo, Member IEEE, G. Rico, L. Leija, A. Vera and J. Gutiérrez, Member IEEE .....	2731
Stages of Development of an Electronic Nose: Correlation Results Using a Dynamic Dilution Olfactometer in Conjunction with Human Experts	
A. Blanco, A. Durán, L. Becherán, P. Larrea, L. Hoinaski, H. de Melo, and A. R. Garcia.....	2738
Literature Review on the Theory of Constraints Applied in the Software Development Process	
S. A. Ribeiro, E. A. Schmitz, A. J. S. M. Alencar, M. F. Silva .....	2747
Optical Character Recognition system development on android platform to aid edit text	
D. Alencar Lima, G. B. Holanda, J. W. M. de Souza, P. P. Rebouças Filho.....	2757
Design and Implementation of DSP-Based H-Infinity Robust Controller for a Boost Converter	
J. T. de Carvalho Neto, Member, IEEE, A. L. de O. Cavalcanti and A. O. Salazar .....	2766
Technologies Capabilities and Innovative Performance: Mediating Effect of the Absorptive capacity	
C. Blanco, N.E. Lozada, and J.E. Arias.....	2775

Numerical Simulation for the Optimized Design of the Heat Exchange Chamber D. Martinez, L. Hernandez and J. G. Avalos.....	2782
A Mobile Identity Management System to Enhance the Brazilian Electronic Government G. M. Verzeletti, E. R. de Mello, and M. S. Wangham, Member, IEEE.....	2790
Impact Analysis of the Digital Radio Transmission Using the DRM+ Standard: A Case Study A. V. Silva, Z. M. A. Peixoto, Member, IEEE, and F. M. F. Ferreira, Member, IEEE.....	2798
Strategy for Support People with Physical Limitation using Games and Wearable Device Myo Flávia Gonçalves Fernandes, Alexandre Cardoso and Renato de Aquino Lopes.....	2808
Implications of Generation Bidding on the Mexican Wholesale Electricity Market Luis M. C. Alejandro, Student Member, IEEE, G. G. Alcaraz, Senior Member IEEE, and J. H. Tovar-Hernández, Senior Member IEEE.....	2817
Low Cost Metallization of Microwave Devices Implemented with 3D Printers Ángel J. García-Collado, Member, IEEE, Gregorio J. Molina-Cuberos, Fernando Ruiz Arróniz, Salvador Zaragoza Sánchez.....	2827
Utilities Analysis for Latin America and Caribbean Innovation Indicators Marcela do Carmo Silva, Carlos Francisco Simões Gomes e Gilson Brito Alves Lima.....	2834