

Time	Wednesday February 21, 2018			Thursday February 22, 2018			Friday February 23, 2018					
	Auditorium Guillermo & Sofia Jenkins (UDLAP)						Auditorium Guillermo & Sofia Jenkins (UDLAP)					
	Left Room		Central Room		Right Room		Left Room		Central Room		Right Room	
08:15-08:45	Registration											
08:45-09:00	Opening Ceremony - Central Room Presenter: Dr. Juan Horacio Espinoza											
09:00-09:30	Plenary Talk Experiences Learned from Developing Bio-medical Instruments in Taiwan Dr. Chi-Hung Hwang Instrument Technology Research Center (ITRC), Narlabs. Central Room Chair: Dr. Juan Manuel Ramirez			Plenary Talk Diffuse Light and Computing for Brain Imaging Dr. Felipe Orihuela-Espina National Institute of Astrophysics, Optics and Electronics (INAOE) Central Room Chair: Dr. Juan Horacio Espinoza			Plenary Talk The Biochemist Strikes Back Dr. Julio Lenin Domínguez Ramírez Universidad de las Américas Puebla Central Room Chair: Dr. Gibrán Etcheverry					
09:30-10:00							Best Paper Award & Congress Closing					
10:00												
Morning	Power Electronics I		Intelligent Systems I		Signal Processing		Electronics		Data Classification		Robotics and Mechatronics I	
Sessions	Chair: Dr. Pedro Bañuelos		Chair: Dr. Gerardo Ayala		Chair: Dr. Roberto Rosas		Chair: Dr. Rubén Alejos		Chair: Dr. Juan Carlos Galán		Chair: Dr. Gibrán Etcheverry	
10:00-10:30	24. A Sensorless Passivity-based Control for PMSM		4. Implementation of a multi-environment learning/teaching platform to improve the dental education quality		12. Identification and classification of eyes movement using EEG signals		23. Vadose zone hydraulic conductivity monitoring by using an arduino data acquisition system		13. Classification of artificial near-side cracks in aluminium plates using a GMR-based eddy current probe		9. Modeling a Robotic Arm with Conformal Geometric Algebra in a Brain-Computer Interface	
10:30-11:00	52. Input Current Ripple Cancellation by Interleaving Boost and Cuk DC-DC Converter		19. A Framework for Design and Development of Persuasive Mobile Systems		22. Consensus Socialization: A contribution to the Assessment Method Center based on the use of a smartpen and the Fast Fourier Transform		28. High-level design of a 2nd order DT-SDM via SIMSIDES and its FPAAs implementation		67. Driver Intent Data Analysis & Classification		14. A Method for Lane Recognition using Active Contours Model in Vehicular Roads	
11:00-11:30			43. An interactive ecosystem based on Borda voting schemes and serious games to support the discovery of aggressiveness and inhibition traits on scholar children		63. A Computational Tool for Analyzing The Turning Kicks in Martial Arts		39. Volume Optimization of Liquids for Dielectric Permittivity Measurements at Microwave Frequencies		75. Classification of network anomalies in flow level network traffic using Bayesian networks		16. Performance Comparison of 2D Slam Techniques Available in Ros using a Differential Drive Robot	
11:30-11:45	Coffee Break											
11:45-12:00							"Congress Official Photograph Taking All Participants are Welcome! Auditorium Front Entrance"					
Morning	Power Electronics II		Intelligent Systems II		Communications		Human Computer Interaction		Biomedical Engineering		Robotics and Mechatronics II	
Sessions	Chair: Dr. José Luis Vázquez		Chair: Dr. Daniel Vallejo		Chair: Dr. Oleg Starostenko		Chair: Dra. Ofelia Cervantes		Chair: Dra. Rocío Salazar		Chair: Dr. César Martínez	
12:00-12:30	54. The Resonant DC-DC Multilevel Boost Converter		56. Performance analysis of superimposed training-based cooperative spectrum sensing		3. Novel Microwave Dixer for Front-End Integration		10. Development of a Brain Computer Interface Interface using multi-frequency visual stimulation and deep neural networks		34. Characterization of intralipid-10% in the range of 400-700 nm using Light Emitting Diodes		53. A Deep Learning Approach Towards Autonomous Flight in Forest Environments	
12:30-13:00	55. Quadratic Buck-Boost Converter with Positive Output Voltage and Continuous Input Current		62. Algorithmic Music Composition Based on Artificial Intelligence: A Survey		49. Performance comparison of routing protocols in VANETS under black hole attack in Panama City		15. The Identity of the Protagonist in Brain-Computer Interfaces: A User-Centered Design Approach		40. Distance-frequency relation in a two dimensional cochlear model by mechanical resonance		65. Autonomous Flight Using RGB-D SLAM with a Monocular Onboard Camera Only	
13:00-13:30	61. Interleaved Resonant Switched Capacitor Voltage Multiplier		69. Multivariate features selection from demographic and dietary descriptors as caries risk determinants in oral health diagnosis: data from NHANES 2013-2014		59. Intelligent Wireless Network Deployment for Search and Rescue Situations		21. Virtual learning environment for children with disabilities: a proposal based on MOODLE and content management with Over the Top (OTT) technology		57. Multispectral light source for endoscopic procedures		73. Direct Torque Control of a PMSM-Drive for Electric Vehicle Applications	
13:30-14:00			72. Data repository of mobile applications for people with disabilities in the area of communication and language using data mining techniques		68. Feasible under extremely low frequency classical electromagnetic radiation by magnetized planets		47. Deep Fraud. A fraud intention recognition framework in public transport context using a deep-learning approach		60. Low-Cost Microcontrolled Based Wireless Heart Rate and Oxygen Saturation Monitor			
14:00-16:00	Lunch on Your Own											
16:00-17:00	Plenary Talk Correct-by-construction data manipulation Dr. Alberto Pardo Instituto de Computación, Universidad de la República, Montevideo, Uruguay Central Room Chair: Dra. Ofelia Cervantes			Plenary Talk Using Ontology and Ontology Networks in Information Systems Dra. Regina Motz Instituto de Computación, Universidad de la República, Montevideo, Uruguay Central Room Chair: Dra. Genevieve Vargas-Solar								
17:00-19:00	Programming ABB robots using RobotStudio M.Sc. Eduardo López Room: LA-116 5:00pm - 7:00pm		Swift Coding Day Workshop Room: iOS Lab CE106 5:00 pm - 8:00pm				Mobile Applications for iOS Dr. Gerardo Ayala Room: iOS Development Lab 5:00 pm - 7:00pm					
19:00-21:00							UX Nights Room: HU-214 7:00p.m-9:00p.m					
21:00-01:00							CONIELECOM '18 COCKTAIL Salón Aquihuaac Posada Señorial Hotel					

Introduction to Python Dr. David Báez Room: HU-314 10:30 am - 1:30 pm	Programming ABB robots using RobotStudio M.Sc. Eduardo López Room: LA-116 10:30 am - 12:30 pm	Mobile Applications for iOS Dr. Gerardo Ayala Room: iOS Development Lab 10:30 am - 12:30 pm	Programming Drones with the Gazebo Simulator QuetzalC++ Team: Rene Parlangue, Roberto Munguia, Sinahi Ortega and José Martínez Carranza Room: BI-310 10:30am - 2:30pm