IEEE Chilecon2017 General Program

	IEEE Chilecon2017				
#	**Tracks**	Papers	# p	Rechazados	
1	Track 1 (Biomedical Engineering)	7, 19, 24, 75, 85, 89, 93, 96, 103, 123, 135, 138, 172, 185, 251, 272	18	2	3, 204
2	Track 2 (Computer Networks)	13, 91, 92, 116, 238, 246	7	1	159
3	Track 3 (Production and Industry)	216, 219	5	3	12, 28, 63
4	Track 4 (Software, Informatics and Computer Science)	10, 64, 119, 147, 181, 184, 211, 221, 273.	9	4	4, 55, 117, 136
5	Track 5 (Energy and Power Systems)	16, 17, 20, 23, 26, 35, 40, 68, 81, 88, 94, 97, 99, 101, 105, 108, 109, 112, 113, 124, 126, 128, 131, 140, 142, 161, 163, 167, 178, 179, 203, 209, 213, 228, 236, 239, 240, 243, 267, 277	40	8	23, 40, 68, 105, 140, 167, 228, 240
6	Track 6 (Other topics)	18, 22, 84, 118, 132, 141, 153, 168, 196, 207, 208, 237, 252.	14	2	18, 73
7	Track 7 (Information Technologies and Communication Systems)	14, 27, 71, 79, 80, 98, 120, 133, 134, 145, 149, 152, 154, 157, 162, 177, 186, 191, 198, 199, 200, 212, 223, 229, 233, 244, 279	28	1	18
8	Track 8 (Automatic and Process Control)	5, 32, 41, 48, 74, 82, 87, 104, 122, 125, 127, 148, 150, 155, 165, 166, 173, 176, 189, 194, 197, 201, 205,206, 214, 230, 231, 234, 241, 257, 263, 274, 278	33	6	5, 32, 104, 150, 176, 201
9	Track 9 (Engineering Education)	38, 72, 83, 100, 110, 130, 146, 155, 248, 250, 271	12	2	129, 169
10	Track (Signal 10 Processing)	11, 29, 30, 31, 33, 34, 36, 37, 86, 90, 106, 107, 111, 115, 151, 158, 171, 175, 182, 195, 210, 235, 242, 245, 264.	24	3	29, 151, 158
11	Track 11 (Robotics and Artificial Intelligence and Vision)	9, 15, 21, 25, 95, 139, 156, 160, 192, 215, 220, 222, 224, 227, 232, 247, 249, 253, 254, 255, 258, 259, 266, 269, 270, 275, 276, 290	30	1	256
12	Track 12 (Power Electronics)	1, 2, 77, 114, 170, 180, 190, 218, 281, 282,283,284,285,286,287	25	2	102, 144, 284
13	Track 13 (Agrofoods)	6, 143, 187, 188, 260, 262, 268	7	1	268
14	Track 14 (NExT-Brasil (Invited session))	42, 43, 45, 46, 47, 49, 51, 53, 57, 58, 59, 60, 61, 62, 65, 66, 67, 69, 70, 76, 193, 202, 217, 226	25	2	70, 225
15	Track 15 (GRSS-Geoscience and Remote Sensors (Invited session))	261, 265.	2	0	
16	Track 16 (IEEE ABB (Invited Session))	56, 174, 183, 280	4	0	
17	Track 17 (SSN (Invited Session)	289, 291,292, 294	4	0	
		Total Papers	290	39	0

Wednesday 18	**IEEE Chilecon2017 General Program**		
Time	Room 1	Room 2	Room 3
9:00-9:30	Inauguration Eduardo Hebel Vicerrector IP UFRO, Cristian Bornhardt Director de Macrofacultad, Carlos Muñoz Pdte Congreso Gastón Lefranc IEEE Chile		
9:30-10:30	Plenaria 1 What Authors Should Know to Successfully Publish Papers in Good Journals. Jacek Zurada, Distinguished Lecturer IEEE SMC y Candidato Presidente IEEE Mundial	Plenaria 2: Data Management Support for moving-object data M. Andrea Rodríguez, Universidad de Concepción, Chile.	
10:30-11:00	Coffee Break		
11:00-12:00	Plenaria 3: Feedback e ingeniería: una clave fundamental para la innovación. Jaime Alvarez, Consejo Nacional de Innovación para la Competitividad (CNIC).	Plenaria 4: Human-robot collaboration for smart factories. Ismael López-Juárez CINVESTAV; México	
12:00-13:00	Discussion Panel: Innovación en Latina America. Engineers rol and IEEE rol. Coordinator Jaime Alvarez With: Jacek Zurada, IEEE Candidate to world Presidency; KatherineVillarroel; Diego Valenzuela.		
13:00-14:00	Lunch		

Wednesday 18	**IEEE Chilecon2017 General Program**						
	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7
14-16:00	Track 5.1: 5 papers	Track 11.1: 5 papers	Track 7.1: 5 papers	Track 4.1: 5 papers	Track 5.3: 5 papers	Track 14.1: 6 papers	Track 14.2: 6 papers
16-16:30	Coffee break						
16:30-18:30	Track 5.2: 5 papers	Track 11.2: 6 papers	Track 7.2: 6 papers	Track 4.2: 4 papers	Track 5.4: 5 papers	Track 14.3: 6 papers	Track 14.4: 6 papers
	Energía y Power Systems Track 5	Robotics and Vision Track 11	TIC y communication Track 7	Software and Computer Science Track 4	Eng. Education Track 5	Next Track Brasil 14	Next Brasil Track 14
19:00	Cocktail Inauguration IEEE Chilecon Rodrigo Navia, Decano fac ing UFRO. Cristián Durán, IPC Congreso, Univ. Bío-Bío Inauguration of IEEE Chile Sur Subsection, Antonio Ferreira, IEEE R9 Director; Esteban Pino, IEEE Chile Sur Subsection Chair.						

Thursday 19	**IEEE Chilecon2017**		
	Room 1	Room 2	Room 3
9:00-9:30	Words of Antonio Ferreira, IEEE Region 9 Director Mario Fernández, IPC Chair Congress, UTalca		Welcome to SSN
9:30-10:30	Plenary Talk 5: Manuel Duarte Ortigueira On fractional derivatives and systems Portugal		Plenary Talk 6: Cristina Cano, Optimización de redes inalámbricas complejas: es machine learning la panacea?
10:30-11:00	Coffee Break		
11:00-12:00	Plenaria 7: Optimization & Decision Making in Intelligent Urban Transportation Systems Abdelkader El Kamel, Francia IEEE CSS	Plenaria 8: HVDC Grids and Renewable Energy Integration Ramon Blasco-Gimenez Technical University of Valencia, Spain	Plenary Talks 9: IoT para apoyo de Samat Cities.Sandra Céspedes, Universidad de Chile.
12:00-13:00	Mesa Redonda: IOT Coordina Víctor Grimblatt. Participan: Martin Cabrera Gerente, Francisco Mardones, Industria Inteligente; NN		Plenary Talks 10: Wiliam Isatagu- IoT in Public Health - An Approach to Implementing Human Smart Cities
13:00-14:00	Lunch		

Thursday 19		**IEEE Chilecon2017**					
	Room 1	Room 2	Room 3: SSN	Room 4	Room 5	Room 6	Room 7
14-16:00	Track 9.1: 6 papers	Track 8.1: 5 papers	Christian Lazo Francisca Varela	Track 10.1: 5 papers	Track 1.1: 5 papers	Track 11.3: 5 papers	Track 7.3: 5 papers
16-16:30	Cofee break						
16:30-18:30		Track 8.2: 5 papers	SSN Track de Mentoring	Track 10.2: 5 papers	Track 1.2: 5 papers	Track 11.4: 5 papers	Track 7.4: 5 papers
	Energía y Power Systems Track 5	Aut and Process Control Track 8	Track SSN	Signal Processing Tracl 10	Biomedica Engineers Track 1	Robotic Track 11	TIC y communi cation Track 7
20:00	Banquet About Eligius Vancek, Honorary President of IEEE Chilecon2017. Present Héctor Kaschel Distinction to Mario Salgado, Carlos Muñoz presentation Award Ceremony: IEEE Ingeniero Eminente, Presentation Gastón Lefranc, IEEE Chile Chair Award Ceremony IEEE-AIE Ingeniero. Dr. Antonio Ferreira, IEEE R9 Director(Latinameric) Víctor Grimblatt President of AIE						

Friday 20 **IEEE Chilecon2017 General Program**								
	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	Room 8: Track SSN
9 -10:30	Track 5.5: 4 papers	Track 8.3: 4 papers	Track 11.5: 4 papers	Track 13.1: 4 papers	Track 12.1: 4 papers	Track 13: 4 papers	Track 10.3: 4 papers	Welcome 2 (videos) Marcia Paiva- Design net topologies use graph invariants
10:30-11	Cofee break							
11-12:15	Track 5.6: 4 papers	Track 8.4: 4 papers	Track 11.6: 3 papers	Track 13.2; 1.3: 4 papers	Track 12.2: 4 papers	Track 156: 4 papers	Track 10.4: 4 papers	Isabel Amigo: Teoría juegos cooperativa y aplic en redes.
12:15-13:15	Plenary Talk 11: Ioannis Vourkas, P.Univ.Católica Chile	Plenari 12: Pedro Albertos, Spain						Jeanna Matheews- problemas de "Big Data
	Energía y PS	Control	Robotica IA	Agrofood Bio Eng	Power electronics	Agrofood GRSS	Signal processing	SSN
13-14:00	Lunch							

Friday 20 **IEEE Chilecon2017 General Program**								
	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	Room 8: Track SSN
14-16:00	Track 12.3: 6 papers	Track 8.5: 5 papers	Track 7.5 : 6 papers	Track 10.5: 6 papers	Track 6.1: 6 papers	Track 2: 6 papers	Track 6.2: 6 papers	Students presentations
16 -16:30	Cofee break SSN Poster Presentations							
16:30-17:50	Track 5.7: 4 papers	Track 8.6: 4 papers	Track 16: 4 papers	Track 9.2: 4 papers		Track 3: 2 papers		SSN Awards
Tracks	Power Electr Track 12 Energía Track 5	Autom Process Control Track 8	TIC y communication Track 7	Signal Processing Tracl 10	Other topics Track 6	CompNet Track 2 Production Track 3	Other topics Track 6	SSN
18:00	Clausure Carlos Muñoz y Cristian Duran (Presenting IEEE ICA ACCA Conference 2018)							

Program by tracks

Paper	Authors	Title	Session	Room	Time
Thurs 19	**Track 1.1 (Biomedical Engineering)**				
7	Marcos Rogger Sacasqui Huaito, Ismael Sánchez Rodriguez-Morcillo and Edilberto Timecio Vasquez Diaz	Adaptive predictive control of dissolved oxygen concentration in a dynamic model of whiteleg shrimp culture	Thursday 19	5	14:00-16:00
19	Hector Kaschel and Cristian Ahumada	Design of a Tri-Band Antenna Microstrip for 2.4 GHz, 3.5 GHz and 5.7 GHz applied a WBAN	Thursday 19	5	14:00-16:00
24	Jhon Hernandez Martin, German Antonio Mendieta Mendieta and Luis Alberto Parra Piñeros	Analysis and Design of Transtibial Prosthesis*	Thursday 19	5	14:00-16:00
75	Pablo Parra, Jomayra Jiménez, Nino Vega and Kleber Nuñez	Prototype of Exoskeleton Used in Child Rehabilitation with a Degree of Freedom.	Thursday 19	5	14:00-16:00
85	Cesar Chavez, Jose Otero Otero and Nadira Gonzalez	Environmental Parameters Meter for Neonatal Intensive Care Units with Android Application for Mobile Devices	Thursday 19	5	14:00-16:00
Thurs 19	**Track 1.2 (Biomedical Engineering)**				
89	João Paulo Virgílio Marinho Martins, Lourdes Mattos Brasil and Janice Magalhães Lamas	Unsupervised Feature Learning for Classification of Regions of Interest in Mammograms.	Thursday 19	5	16:30-18:30
93	Franklin Placencia, Víctor Manzano, Juan Pallo, Marco Jurado and Dennis Chicaiza	Embedded Device For Blood Pressure Monitoring	Thursday 19	5	16:30-18:30
96	Elkyn E. Hernández Sanabria, José A. Amaya Palacio, Hugo D. Hernández Herrera and Wilhelmus Van Noije	A design methodology for an integrated CMOS Instrumentation Amplifier for bioespectroscopy applications	Thursday 19	5	16:30-18:30
103	Jorge Osmani Ordoñez Ordoñez, Jack Fernando Bravo Torres, Pablo Leonidas Gallegos Segovia, Paul Esteban Vintimilla Tápia, Martín López Nores and Yolanda Blanco Fernández	A Context-Aware Platform for Comprehensive Care of Elderly People: Proposed Architecture	Thursday 19	5	16:30-18:30
123	Guillermo Avendaño, Antonio Rienzo, Gaston Lefranc and Miguel Bustamante	Biomedical Engineering Projects to Support The Elderly	Thursday 19	5	16:30-18:30

Program by tracks

Thursday 19 Track 1.3 (Biomedical Engineering)					
135	Andres Arcentales, Melissa Raza and Beatriz Giraldo	Characterization of HRV and QRS Slope During Audiovisual Stimulation	Friday 20	4	09:00-10:30
138	Huber Nieto-Chaupis	Proposal of a Telecare System for Monitoring Glucose Anomalous Behavior in Type-2 Diabetes Patients	Friday 20	4	09:00-10:30
172	Jose Cardenas and Hector Kaschel	Fetal ECG Multi-level Analysis using Daubechies Wavelet Transform for Non-invasive Maternal Abdominal ECG recordings	Friday 20	4	09:00-10:30
185	Yadini López, Cicero Costa Filho, Luis Aguilera and Marly Costa	Automatic classification of light field smear microscopy patches using Convolutional Neural Networks for identifying Mycobacterium Tuberculosis	Friday 20	4	09:00-10:30
Thursday 19 Track 1.4 (Biomedical Engineering)					
251	Huber Nieto-Chaupis	Monte Carlo Simulation for the Very Anticipated Detection of Charged Giants Proteins in Type-2 Diabetes Patients based on the Internet of Bio-Nano Things	Friday 20	4	11:00-12:15
272	Mauricio Poblete, Romina Torres and Rodrigo Rooms	Classifying human daily life actions using computational intelligence techniques	Friday 20	4	11:00-12:15

Program by tracks

	Fri20 Track 2 (Computer Networks)				
#	Authors	Title	S	R	Time
13	Jan Camilo Quequezana Buendia and Julio Santisteban Pablo	AL-DDoS Attack Detection Optimized with Genetic Algorithms	20	6	14:00-16:00
91	Yasmany Prieto, Nicolás Boettcher, Sergio K. Sobarzo and Jorge E. Pezoa	Increasing Network Reliability to Correlated Failures Through Optimal Multiculture Design	Fri 20	6	14:00-16:00
92	Hector Kaschel and Karel Toledo	Energy Efficient Spectrum Management in Cognitive Radio Sensor Networks	Fri 20	6	14:00-16:00
116	Julio Flores, Vinicio Ramos, Raúl Lozada and Tony Flores	Analysis of solutions of Network Access Control to improve in and out securities on Corporative Networks	Fri 20	6	14:00-16:00
238	Tiago Araújo, Fernando Matos and Josilene Moreira	Intrusion Detection Systems' Performance for Distributed Denial-of-Service Attack	Fri 20	6	14:00-16:00
246	Pablo Leonidas Gallegos-Segovia, Jack Fernando Bravo-Torres, Paúl Esteban Vintimilla-Tapia, Victor Manuel Larios-Rosillo, Iván Fernando Yuquilima-Albarado and Santiago J. Arévalo-Cordero	Living Lab concept for cloud analysis in networks of metropolitan sensors applying the concept of SD-WAN and hybrid networks	Fri 20	6	14:00-16:00

Program by tracks

#	#	Authors	Title	S	R	Time
		Track 3 (Production and Industry)				
1	216	Victor Olivares, Felisa Cordova and Claudia Duran	Transport logistics for fleet of drones in a Mass Customization System	Fri20	6	16:30-17:30
2	219	José Mardones, Andrés Iroume and Rodrigo Roomzar	Data Register and Variable Monitoring System from Water Stream in Forest and Plantation Basins.	Fri 20	6	16:30-17:30

Program by tracks

	Track 4.1 (Software, Informatics and Computer Science)			
#	**Authors**	**Title**	Session	Time
10	Santiago Navarro, Diego Benitez and Alberto Sanchez	A Least Square Procedure for the Solution of Pocklington's Equation	Wednesday 18 Room 4	14:00-16:00
64	Sergio Rosim, João Ricardo de Freitas Oliveira, Alexandre Copertino Jardim, Monica De Martino and Alfonso Quarati	Open Data practices: the case of South America drainage datasets	Wednesday 18 Room 4	14:00-16:00
119	Oscar Ancan and Carlos Cares	Do Developers Care about Code Smells? A Replicated Study from Chile	Wednesday 18 Room 4	14:00-16:00
147	Pablo Leonidas Gallegos-Segovia, Jack Fernando Bravo-Torres, Víctor Manuel Larios-Rosillo, Paúl Esteban Vintimilla-Tapia, Iván Fernando Yuquilima-Albarado and Jorge Osmani Ordoñez-Ordoñez	Social engineering as an attack vector for ransomware	Wednesday 18 Room 4	14:00-16:00
181	Adrian Mena, Joel Rivera, Diego Teran, Freddy Tapia, Walter Fuertes, Hernan Aules and Theofilos Toulkeridis	Interactive Geo-location Based Service Application as Pervasive Computing through Mobile Devices	Wednesday 18 Room 4	14:00-16:00

	Track 4.1 (Software, Informatics and Computer Science)			
#	**Authors**	**Title**	Session	Time
184	Sandra Kawamoto and Jorge Almeida	Scrum-DR: An Extension of the Scrum Framework Adherent to the Capability Maturity Model Using Design Rationale Techniques	Wednesday 18 Room 4	16:30-18:30
211	Rosa Medina Durán, Enrico Malaguti and Cristian Duran-Faundez	Techniques for finding a list of solutions with increasing costs for the Semi-Assignment Problem	Wednesday 18 Room 4	16:30-18:30
221	William Ipanaqué, Iván Belupú, José Castillo and Julio Salazar	Internet of Things applied to monitoring fermentation process of cocoa at the Piura's mountain range	Wednesday 18 Room 4	16:30-18:30
273	Romina Torres, Marcelo Aros and Juan Felipe Calderón-Maureira	Towards self-adaptation for cyber-physical systems using a distributed MAPE-K schema over XMPP	Wednesday 18 Room 4	16:30-18:30

Program by tracks

Wed 18	Track 5,1: (Energy and Power Systems)				
#	Authors	Title		R	Time
17	Ricardo Medina, Diego Morales and Marco Toledo	Power Transformer Risk Index Assessment for an Asset Management Plan	Wed 18	1	14:00 16:00
20	Arley Roomzar Hincapie, Th an Fernando Alvarez Pineda, Andrés Felipe Romero Maya, Sebastian Marín Muñoz and Carlos Alberto Valencia Hernandez	Analysis of the thermoeconomical behavior on an split type air conditioner due to condenser fouling	Wed 18	1	14:00 - 16:00
26	Aramis Perez, Vanessa Quintero, Heraldo Rozas, Diego Jimenez, Marcos Orchard and Francisco Jaramillo	Lithium-Ion Battery Pack Arrays for Lifespan Enhancement	Wed 18	1	14:00 - 16:00
35	Ricardo Medina, Diego Morales and Andrés Romero	Cuantificación de las Consecuencias de la Falla Final de un Transformador de Potencia Usando Lógica Difusa	Wed 18	1	14:00 - 16:00
81	Th an Carlos Lata Garcia, Christopher Reyes Lopez, Francisco Th rado, Luis Fernández and Higinio Sanchez	Sizing optimization of a small hydro/photovoltaic hybrid system for electricity generation in Santay Island, Ecuador by two methods	Wed 18	1	14:00 - 16:00

Program by tracks

Wed 18	Track 5.2: (Energy and Power Systems)				
#	Authors	Title	Session	Room	Time
88	Guner Tatar, Kenan Toker, Necibe Fusun Oyman Serteller and Hayriye Korkmaz	A Dynamic Analysis of BLDC Motor by Using Matlab/Simulink and Mathematica	Wed 18	1	16:30 - 18:30
97	Necibe Fusun Oyman Serteller and Dursun Ustundag	Analysis of Dynamic Behavior of Direct Current Motor with Electrical Braking Techniques	Wed 18	1	16:30 - 18:30
99	Matias Garbarino, Rodrigo Morales, Saul Cuevas, Pablo Henriquez, Jaime Rohten, Ernesto Rubio and Eugenio Wernekinck	Comparison between Maximum Power Point Tracking Algorithms for dc/dc Power Converters	Wed 18	1	16:30 - 18:30
101	Iovani Teave Rivera and Jorge Mendoza Baeza	Number and Location of Meters to Improve State Estimation in Distribution Networks	Wed 18	1	16:30 - 18:30
108	Nicolás Solís-Llanos, Ignacio A. Calle and Víctor H. Hinojosa	New approach applied to the generation expansion planning considering an AC modeling	Wed 18	1	16:30 - 18:30

Program by tracks

Th 19	Track 5.3: (Energy and Power Systems)				
#	Authors	Title	Session	R	Time
109	Cristian Vera and Jorge Mendoza	Optimization of Centralized Charging Strategy for Electric Vehicles in Power Distribution Network	Th 19	7	14:00-16:00
112	Diego Coronel, Enrique Buzarquis and Gerardo Blanco	Analyzing feasibility of energy storage system for energy arbitrage	Th 19	7	14:00-16:00
113	Almendra Awerkin, Humberto Verdejo, Karina Barbosa and Cristhian Becker	Statistical parametric techniques for power residential demand forecasting	Th 19	7	14:00-16:00
124	Victorio Enrique Oxilia Dávalos, Eduardo Adrian Ortigoza Moreno and Richard German Ríos González	Harnessing Natural Resources with Shared Sovereignty for Power Generation in the Parana River Basin: Systematization of Learned Lessons	Th 19	7	14:00-16:00
126	Jose Vitalino Ojeda Ortiz, Oscar Daniel Santa Cruz Cáceres, Mario Salomón Arevalo González, Daniel Alberto Ríos Festner and Gerardo Alejandro Blanco Bogado	ANALYSIS OF SUPPLY COSTS IN BUSES OF THE NATIONAL INTERCONNECTED SYSTEM OF PARAGUAY	Th 19	7	14:00-16:00

Th 19	Track 5.4: (Energy and Power Systems)				
#	Authors	Title	Session	Room	Time
128	Daniel Icaza	Dimensioning of the main mechanical elements and final assembly of the DIAWIND-A2 wind turbine	Th 19	7	16:30-18:30
131	John W. Castro, Pablo Meléndez M. and Efraín R. Fonseca C.	Energy Management Software Systems Based on ISO 50001 Standard: A Preliminary Systematic Mapping Study	Th 19	7	16:30-18:30
142	Javier Vique, Javier Hernan Iturralde and Alvaro Santiago Mullo Quevedo	Análisis de la incidencia de las puestas a tierra con alta resistividad frente a descargas atmosféricas en la línea de Subtansmisión de 69KV San Rafael - Mulalo.	Th 19	7	16:30-18:30
161	Diego Paul Chacon Troya, Christian Enriquez and Hector Romero	Simulation of Harmonics Produced by Electroliners in the Electrical Network of Cuenca City	Fri 20	1	09:00-10:30

Program by tracks

Fri 20	Track 5.5: (Energy and Power Systems)				
#	Authors	Title	Sessio	R	Time
163	Fredy Fernando Ferreira Acosta, Daniel Alberto Rios Festner, Félix Fernández, Francisco Escudero and Gerardo Blanco	Valuing Risk and Flexibility of the Yguazú Hydropower Project in Paraguay	Fri 20	1	09:00-10:30
178	Marcelo Cortes Carmona, Abdiel Mallco Carpio, Williams Calderón Muñoz, Rodrigo Palma-Behnke and Jorge Reyes Marambio	Altitude Effect in the Design of a Lithium-Ion Battery Packing System	Fri 20	1	09:00-10:30
179	Marcelo Cortes Carmona, Pablo Medina and Jessica Guevara Cedeño	Optimal Programming of Insulator Washing in Transmission Lines and Substations	Fri 20	1	09:00-10:30
203	Diego Jiménez and María Vives	Development of a Methodology for Planning and Design of Micro-grids for Rural Electrification	Fri 20	1	09:00-10:30

Fri 20	Track 5.6: (Energy and Power Systems				
#	Authors	Title	Sessio	R	Time
209	Daniel Gonzalez and Hector Chavez	Towards Optimal Wind Power Plant Connecting Line Dimmensioning	Fri 20	1	11:00-12:15
213	Esteban Riquelme and Hector Chavez	Towards System-wise Synthetic Inertia Models to study power system frequency response	Fri 20	1	11:00-12:15
236	Ricardo Enrique Pérez Guzmán, Yamisleydi Salgueiro Sicilia and Marco Esteban Rivera Abarca	Communications in Smart Grids	Fri 20	1	11:00-12:15

Fri 20	Track 5.7: (Energy and Power Systems)				
#	Authors	Title	Sessio	R	Time
239	Nicolás Mira-Gebauer, Erick Rojo-Olea and Patricio Mendoza-Araya	Induction machine small-signal impedance for stability studies using dynamic phasor modeling	Fri 20	1	14:00-16:00
243	Yamisleydi Salgueiro Sicilia, Marco Rivera and Cesar Astudillo	Support Vector Machines for Classification of Electrical Resistance Values within a VSI	Fri 20	1	14:00-16:00
277	Pablo Sanchez and Nelson Aros	Modeling of the Electrical Impact of the Tower Flexion in a Wind Turbine	Fri 20	1	14:00-16:00

Friday 20 Track 6.1: (Other topics) **Program by tracks**					
#	Authors	Title	Sesión	Room	Time
84	Cristian Fiallos, Raul Haro, Freddy Acosta and Diego Benitez	On the Design, Simulation and Fabrication of Multiple Section Coupled-Line Directional Couplers at C-band using Microstrip Technology	Fri 20	5	14:00 - 16:00
118	Nicolas Ramos, Alfredo Rates, Nicolas M. Ortega, Felipe E. Besser and Ernest A. Michael	Coupling Optimization of a Traveling Wave in a Single-Mode Optical Fiber based on Reference Model Controller	Fri 20	5	14:00 - 16:00
132	Katherine Cortes, Rodrigo Reeves, Pekka Kangaslahti, Miguel Figueroa, Wagner Ramírez, Lilian Mora, Pablo Cartes, David Arroyo, Brian Molina and Gonzalo Burgos	Development of at water vapor radiometer at 183 GHz for sites of extreme dryness	Fri 20	5	14:00 - 16:00
141	Alan Sanchez, Roberto Tapia and Esteban Vera	Comparative Analysis of Optical Image Compression Systems	Fri 20	5	14:00 - 16:00
153	Franklin Placencia, Victor Manzano, Juan Pallo, Marco Jurado and Dennis Chicaiza	Electronic clothes for vital signs monitorig	Fri 20	5	14:00 - 16:00
168	Alejandro Navarro, Raul Burgos and Carlos MuÑoz	Forest fire monitoring system, with visible spectrum cameras, in Torres del Paine National Park; Chilean Patagonia.	Fri 20	5	14:00 - 16:00
Friday 20 Track 6.2: (Other topics)					
#	Authors	Title	S	Room	Time
196	Jaime Pacheco and Roberto Moncada	Calculation of losses and energy efficiency of Synchronous Reluctance machines according to IEC Standard 60034-2	Fri 20	7	14:00 - 16:00
207	Edwin Pruna, Ivón Escobar, Marco Pilatásig, Mauricio Navarrete and Andrés Cárdenas	Virtual system for lower limbs strengthening in children	Fri 20	7	14:00 - 16:00
208	Ivon Escobar, Accel Guamán, JaFrir Montaluisa, Edwin Pruna and Yolanda Marin	Mobile application for vowel learning in children with Down Syndrome "LVDS-App"	Fri 20	7	14:00 - 16:00
237	JaFrir Borquez, Moises Ferber and Karina Barbosa	Parametric Uncertainty Analysis of Inverse Linear Electric Circuit Problems	Fri 20	7	14:00 - 16:00
252	Gustavo Alonso Boza Quispe, Fabricio Puente Mansilla and Jimmy Aurelio Rosales Huamani	A Friendly Speech User Interface based on Google Cloud Platform to Access a Tourism Semantic Website	Fri 20	7	14:00 - 16:00

Program by tracks

	Track 7.1: (Information Technologies and Communication Systems)				
#	**Authors**	**Title**	Session	Room	Time
14	Darwin Aguilar, Rita León, Darwin Palacios, Mario Campaña, Diana Moreno and Rocio Aguilar	GEORREFERENCED MOBILE APPLICATION FOR LOCATION AND RESCUE OF PERSONS WITH DISABILITIES IN AREAS OF RISK	Wed 18	3	14:00-16:00
27	Diego Paredes and Than Granda	Communications system design, deploying FSO technology at Universidad De Las Américas Campuses	Wed 18	3	14:00-16:00
71	Sergio Mora, Yeni Alonso, Nelson Vargas, Jhon Vera and Jonathan Avendano	Design of a bandpass filter using Microstrip Hairpin resonators	Wed 18	3	14:00-16:00
79	David Zabala, Cesar Azurdia and Gabriel Campuzano	Mitigated ICI in DVB-C2-OFDM Systems Utilizing the Optimal Improved Double Thmp 1 Filter	Wed 18	3	14:00-16:00
80	Alberto Marroquin, Adalberto Gomez and Alejandro Paz	Design and implementation of a Mobile Explorer Robot controlled remotely using IoT Technology	Wed 18	3	14:00-16:00
98	Thlio Manco and Martin Soto	Spread Spectrum Orthogonalization of Superimposed Training Signals in OFDM Systems	Wed 18	3	14:00-16:00

	Track 7.2: (Information Technologies and Communication Systems)				
#	**Authors**	**Title**	Session	Room	Time
120	Rolando P. Reyes Ch., Darwin Paredes Calderón, Luis Montoya, Hugo Pérez Vaca and Wilbert G. Aguilar	MilNova: An Approach to the IoT Solution based on Model-Driven Engineering for the Military Health Monitoring	Wed 18	3	16:30-18:30
133	Lácides Ripoll, Luis Torres and Manuel Sierra	Monte Carlo-based Tolerance Study of an End-Fed Resonant Slot Waveguide Linear Array Antenna	Wed 18	3	16:30-18:30
134	Luis Torres and Dainer Vasquez	Sound Localizer using Wireless Sensor Networks	Wed 18	3	16:30-18:30
145	Alberto Belalcazar, Vicente Merchan, JaFrir Díaz and Lia Molinari	Towards Complement Strategy in the Business-IT Alignment	Wed 18	3	16:30-18:30
149	Luis Camargo, Byron Medina and Jorge Gómez-Rojas	Sensors network for tourist beaches	Wed 18	3	16:30-18:30

	Track 7.3: (Information Technologies and Communication Systems)				
#	**Authors**	**Title**	S	R	Time
152	Washington Fernández and Krzysztof Herman	Union of code and Encryption for channels with Class A Noise	Th 19	3	14:00-16:00
154	Andrés Salazar, Juan Pallo, Santiago Manzano, Carlos Nuñez, Marco Jurado, Julio Cuji, Frnaklin Plascencia	Electronic System of Monitoring and Control for Distribution of Electricity in Households	Th 19	3	14:00-16:00
157	Antônio Marcos Melo Medieros, Murilo Lívio de Oliveira, João Victor Ramos de Castilho, Cleidimar Garcia Pereira and Marcos Antônio de Souza	THE FIFTH GENERATION OF MOBILE COMMUNICATION AND ITS APPLICATIONS ON THE INTERNET OF THINGS (IoT)	Th 19	3	14:00-16:00
162	Mohammed Jasim, Jorge Pezoa and Nasir Ghani	Simultaneous Multi-Beam Analog Beamforming and Coded Grating Lobes for Initial Access in mmWave Systems	Th 19	3	14:00-16:00
177	Maria Estela	A Barnes-Wall lattice general scheme for the K-user Symmetric Interference Channel	Th 19	3	14:00-16:00

	Track 7.4: (Information Technologies and Communication Systems)				
#	**Authors**	**Title**	Session	Room	Time
186	Patricia Möller-Acuña, Alejandro Valdés-Jimenéz, Roberto Ahumada-García and José Antonio Reyes-Suárez	An information system for preventive alerting of frost episodes in the Central Region of Chile	Th 19	3	16:30-18:30
191	Roberto Ahumada-García, Patricia Möller-Acuña and José Antonio Reyes-Suárez	An expert system for handling Phytosanitary Products in Chilean export fruit	Th 19	3	16:30-18:30
198	Nicolás Matías Ortega Silva and Claudio Valencia Cordero	Towards Physical Layer Security systems design using Game Theory approaches	Th 19	3	16:30-18:30
199	Erwin J. Sacoto Cabrera, Pablo L. Gallegos Segovia, Gabriel A. Leon Paredes, Jorge L. Rodriguez Bustamante and Gabriela P. Arevalo Quizhpi	Internet of Things: Informatic System for Metering with Communications MQTT over GPRS for Smart Meters	Th 19	3	16:30-18:30
212	Cristian Duran-Faundez, Daniel G. Costa, David Rocha-Rocha, Francisco Vásquez-Salgado, Gilbert Habib and Patricio Galdames	On optimal deployment of industrial wireless sensor networks	Th 19	3	16:30-18:30

	Track 7.4: (Information Technologies and Communication Systems)				
#	**Authors**	**Title**	Session	Room	Time
200	Pablo Velasquez, Christian Correa and Diego Rivera	A low-cost IoT based Environmental Monitoring System. A citizen approach to pollution awareness	Fri 20	3	14:00-16:00
223	Nicolás López and Claudio Valencia	Constant Jamming Experimental Results on Indoor Wireless Sensor Network	Fri 20	3	14:00-16:00
229	Samuel Montejo-Sánchez, Cesar Azurdia-Meza, Sandy Bolufé, Sandra Céspedes, Ismael Soto and Richard Demo Souza	Novel Channel Hopping Sequence Approaches to Rendezvous for VANETs	Fri 20	3	14:00-16:00
233	Gonzalo Olmedo and Nancy Paredes	Analytical performance evaluation for M-QAM with cochannel interference in cellular networks over AWGN and Rayleigh fading channels	Fri 20	3	14:00-16:00
244	Vicente Marín, Ariel Leiva, Alejandra Beghelli, Francisco Pizarro, Ricardo Olivares and Cesar Garrido	A RMLSA Algorithm for Wide-Area Flex-Optical Networks	Fri 20	3	14:00-16:00
279	Daniel G. Costa, Cristian Duran-Faundez and Joao Carlos N. Bittencourt	Availability Issues for Relevant Area Coverage in Wireless Visual Sensor Networks	Fri 20	3	14:00-16:00

Program by tracks

	Track 8.1:(Automatic and Process Control)				
#	**Authors**	**Title**	S	R	Time
278	Matías Veras, Roman Osorio-Comparán, Manuel Duarte-Mermoud, Antonio Rienzo and Gaston Lefranc	Variables Control of a Modular Greenhouse	Ju 19	2	14:00-16:00
74	Gilbert Habib, Ralph El Khoury, Nicolas Haddad, Cristian Duran-Faundez and Daniel G. Costa	An experimental platform for evaluating low power wireless communication systems for industrial applications	Ju 19	2	14:00-16:00
82	Erwin Werner, Christian Antileo and Nelson Aros	Model of active sludge process coupled to a layer based settler for simulation of a dissolved oxygen control scheme	Ju 19	2	14:00-16:00
48	Arathy Rajeev V.K., Marco Rivera and Ganesh Kumar S.	Twenty Eight Years of Passivity Based Control: A Review	Ju 19	2	14:00-16:00
87	Claudio Alarcon and Carlos Muñoz	Minimum Time Swing-Up Controller Applied to a Rotary Inverted Pendulum	Ju 19	2	16:30-18:00

Program by tracks

	Track 8.2:(Automatic and Process Control)				
#	**Authors**	**Title**	S	R	Time
122	José Oliden, José Manrique and William Ipanaqué	Modelling, simulation and Nonlinear Control of an Evaporator for Bioethanol production	Ju 19	2	16:30-18:00
125	José Oliden, José Manrique and William Ipanaqué	Modelo y control de un sistema de refrigeración para conservación de frutas	Ju 19	2	16:30-18:00
148	Edwin Pruna, Edison Sásig and Santiago Mullo	PI and PID controller tuning tool based on the Lambda method	Ju 19	2	16:30-18:00
155	William Gutierrez, Carlos Heber Jiménez and Mario Fernandez	Web Access for Flexible Manufacturing System	Ju 19	2	16:30-18:00
	Track 8.3:(Automatic and Process Control)				
#	**Authors**	**Title**	S	R	Time
165	Hugo Garces and Alejandro Rojas	Identification and Control of Total Radiation in a Combustion Process Based on Hammerstein Systems	Vie 20	2	09:00-10:30
166	Ademar Goncalves Costa Junior, Jose Leonardo Benavides Maldonado, Fabricio Alvarado Romero, Jhon Calderon Sanmartín, Michael Valarezo and Hernán Castillo	N4SID Method Applied to Obtain a Discrete-Time Linear State Space System as a Mathematical Model of a Jaw Crusher Prototype	Vie 20	2	09:00-10:30
173	Jonathan Palma, Leonardo Carvalho, Tábitha Rosa, Cecília Morais and Ricardo Oliveira	H-2 filtering through multi-hop networks: trade-off analysis between the network consumption and performance degradation	Vie 20	2	09:00-10:30
189	Leonardo Carvalho, Jonathan Matías Palma Olate, Alim Gonçalves and Cristian Duran-Faundez	Applying Polytopic Uncertainty in the Vehicle-Following Problem with Lossy Networks	Vie 20	2	11:00-12:15
	Track 8.4:(Automatic and Process Control				
#	**Authors**	**Title**	S	R	Time
194	Gerald Torres, Karina Barbosa and Francisco Cubillos	No Lineal Control Design to Direct Rotary Dryer	Vie 20	2	11:00-12:15
197	Felipe Alarcón, Iván Velásquez, Renato Hunter, Boris Pavez and Roberto Moncada	Hybrid PID-Fuzzy pitch control for wind turbines	Vie 20	2	11:00-12:15
205	Kristhian Ardura and Nelson Aros	Model Predictive Control on a Induction Machine for Electric Traction	Vie 20	2	11:00-12:15
206	Edwin Pruna, Santiago Mullo, Jhonathan Caicedo, Xavier Zambrano, Ivón Escobar, Andrés Gordón and Patricia Constante	Distributed System for the monitoring and control of Processes	Vie 20	2	11:00-12:15

Program by tracks

	Track 8.5:(Automatic and Process Control)				
#	**Authors**	**Title**	S	R	Time
214	Víctor Gutiérrez-Godoy, Luciano González-González, Christian Hernández-Novoa, Cristian Duran-Faundez, Ernesto Rubio, Alleiny Machado Sosa, Krzysztof Herman and Jonathan M. Palma	Wireless control of a coupled tanks system: A case study	Vie 20	2	14:00-16:00
230	Carlos Muñoz and Mario Fernández	Sliding Mode Controller applied to a Levitated Magnetic Suspension System. A didactic view	Vie 20	2	14:00-16:00
231	Sergio Castro, Byron Medina, Sergio Sepúlveda, Dinael Guevara and Luis Camargo	Methodology for Virtual Instruments development	Vie 20	2	14:00-16:00
234	Rodrigo Oróstica, Manuel A. Duarte-Mermoud, Cristian Jáuregui and Gastón Lefranc	Inverted Pendulum Stabilization by means of Inverted Pendulum Stabilization by means of	Vie 20	2	14:00-16:00
241	Dany Siadén Paiva and Edilberto Vásquez Díaz	Comparative Analysis of adaptive PID and NEPSAC Controller Performance for Continuous Stirred Tank Heater	Vie 20	2	14:00-16:00

	Track 8.6:(Automatic and Process Control				
#	**Authors**	**Title**	S	R	Time
257	Mairon Marques, Murillo Magan, Ruberlei Gaino and Márcio Covacic	Control of Uncertain System Represented By Polytope Using Enhaced Lyapunov Function	Vie 20	2	16:00-17:50
263	Nelson Gatica, Carlos Muñoz and Patricio Sellado	Real fuzzy PID control of the UAV AR.Drone 2.0 for hovering under disturbances in known environments	Vie 20	2	16:00-17:50
274	William Ipanaqué and Irene Alvarado	Wiener Predictive Control for a pH neutralisation plant	Vie 20	2	16:00-17:50
127	Felipe Arriagada and Francisco Vargas	Optimal state prediction in feedback systems with data loss compensation strategies.	Vie 20	2	16:00-17:50

Program by tracks

	Track 9.1: (Engineering Education)				
#	**Authors**	**Title**	S	Room	Time
38	Nino Tello Vega Ureta, Pablo Parra and Daniel Humberto Martillo Ayala	Didactic Equipment Developed with Embedded Systems for the Learning of Engineering.	Th 19	1	14:00-16:00
72	Víctor Gonzalo	Simulador de Seguidor de Línea con Control Difuso	Th 19	1	14:00-16:00
83	Flavio Torres	INTELLIGENT INSTRUMENTATION OF A WATER TANK SYSTEM FOR EDUCATIONAL PURPOSES	Th 19	1	14:00-16:00
100	Oscar Núñez-Mata, Pablo González-Inostroza, Patricio Mendoza-Araya and Guillermo Jiménez	Development of a Wedcrogrid Protection Laboratory Experiment for the Study of Overcurrent and Under Voltage Functions	Th 19	1	14:00-16:00
110	Malka Irina	ENERGY EFFICIENCY DIAGNOSIS OF THE SOLAR PHOTOVOLTAIC ENERGY TEST BANK AT THE PLAZOLETA A LA VIDA IN THE FRANCISCO DE PAULA SANTADER OCAÑA UNIVERSITY	Th 19	1	14:00-16:00
130	Marco Pilatasig	Implementation of Fuzzy Controller in Low Cost Embedded Boards for a Flow System	Th 19	1	16:30-18:30

	Track 9.1: (Engineering Education)				
#	**Authors**	**Title**	S	Room	Time
146	Benito Bernardo León-Ullauri, Jack Fernando Bravo-Torres, Roque Daniel Contreras-Chacón, Jennifer Andrea Yépez-Alulema, Diego Andrés Cuji-Dután and Paul Esteban VintiWedlla-Tapia	Detection and recommendation of experts/authorities of Mendeley and Twitter topics for learning stimulation	Fri 20	4	16:00-17:50
248	Huber Nieto-Chaupis	Merging Topics of Advanced Telecommunication in the Capstone Project of the Electrical and Network Engineering Program of Peruvian Universities	Fri 20	4	16:00-17:50
250	Huber Nieto-Chaupis	An Efficiency-based Scheme to Measure the Quality of Education in the Program of Telecommunications and Network Engineering	Fri 20	4	16:00-17:50
271	Edwin Malagon and Alexis Rojas Cordero	Análisis y Simulación de grafos aplicados a la enseñanza con programación paralela en HPC	Fri 20	4	16:00-17:50

	Track 10.1: (Signal Processing)				
#	Authors	Title	Sess	R	Time
11	Diego Benitez	A Simple Algorithm for Detection of QRS Onset in Single Channel ECG Signals	Th 19	7	14:00-16:00
29	Betsabe Simbana, Darwin Omar Alulema Flores, Christian Vega and Derlin Morocho	Design of an Augmented Reality-based Applica-tion for Quito's Historic Center	Th 19	7	14:00-16:00
30	Andres Pazmiño, Darwin Omar Alulema Flores, Derlin Morocho, Alexander Ibarra, Veronica Alulema and Jonathan Flores	Analysis of a Zigbee Mesh Network Based on the IEEE 802.15.4 Standard for the Operation of a Drone	Th 19	7	14:00-16:00
33	David Mendoza, Darwin Omar Alulema Flores, Derlin Morocho, Alexander Ibarra, Veronica Flores and Jonathan Flores	Design of the Control Interface for a quadricopter with the Kinect device	Th 19	7	14:00-16:00
34	David Arellano, Thlio Jironza, Alexander Ibarra, Lenin Rómulo Abatta Jácome, Darwin Omar Alulema Flores and Derlin Morocho	Design and Construction of Stabilizing Mechanisms for a Drone Camera	Th 19	7	14:00-16:00
	Track 10.2: (Signal Processing)				
#	Authors	Title	Sess	R	Time
86	Alejandra Fonseca, Darwin Alulema, Flavio Pineda and Derlin Morocho	Auxiliar Prototype for Physiotherapy Using Kinect	Th 19	4	16:30-18:30
90	Marcus Lima, Cesar Quirz, Pedro Mello and Paulo Kurka	Neural Network Regularization of an Inertial Odometry Estimation for Position Control of a Mobile Robot	Th 19	4	16:30-18:30
106	Gabriel Fernandes, Luiz De Almeida, Paulo Santos, Sander Brito, Alípio Motta and Omar Vilcanqui	Channel Model with Capacity Estimation Algorithm on Primary Distribution Overhead Lines for Broadband PLC	Th 19	4	16:30-18:30
107	Roberto Triviño, Ana Veronica Guaman Novillo, Patricio López, Andrés Arcentales and David Calderón	Electronic Nose Prototype for Explosive Detection	Th 19	4	16:30-18:30
151	Roman Lara and Katherine Garcés	Validating a Channel Model Propagation in Outdoors Scenarios by Using Bootstrap Method	Th 19	4	16:30-18:30

Friday 20 Track 10.3: (Signal Processing) **Program by tracks**					
#	Authors	Title	Sess	R	Time
171	Lerko Araya-Hernández, Jorge F. Silva, Axel Osses and Felipe Tobar	A Bayesian Mixture-of-Gaussians Model for Astronomical Observations in Interferometry	Fri 20	7	9:00-10:30
175	Alejandro Cuevas, Alejandro Veragua, Sonia Español, Gustavo Chiang and Felipe Tobar	Unsupervised Blue Whale Call Detection Using Multiple Time-Frequency Features	Fri 20	7	9:00-10:30
182	Krzysztof Herman and Washington Fernández Ravanales	A comparative study of selected methods for ultrasonic signals energy estimation for target strength and distance evaluation	Fri 20	7	9:00-10:30

	Track 10.4: (Signal Processing)				
#	**Authors**	**Title**	Sess	R	Time
195	Guzman Vigliecca, Maximiliano Silva, Vittorio Scopelli, Nicolás Pérez and Pablo Monzón	Impact localization in solid surfaces using acoustic waves	Fri 20	7	11:00-12:15
210	Josué Hernández, Abél López, Armando Serrano and Abraham Medina	Measurement of the sound pressure level during the discharge process of a tilted silo	Fri 20	7	11:00-12:15
235	Fernando Antonio Castillo, Jose Cifuentes and Milton Marín	Study of Spectral Emission of burning Biomass in the VIS and NIR Spectral Band	Fri 20	7	11:00-12:15

Friday 20 Track 10.5: (Signal Processing) **Program by tracks**					
#	**Authors**	**Title**	Sess	R	Time
242	Witman Joel Alvarado Diaz and Avid Roman Gonzalez	Implementation of a Brain-machine interface for controlling a wheelchair	Fri 20	4	14:00-16:00
245	Jean Carlos Fabiano Dos Santos and Jose Alexandre De França	Frontier solution and recovery of corrupted ultrasonic echoes on an anemometer, using zero-crossing technique	Fri 20	4	14:00-16:00
264	Brian Andreé Meneses Claudio and Eduardo Manuel Zamora Villaorduña	IMPLEMENTATION OF A WIRELESS SYSTEM FOR THE PROCESSING AND COMPARISON OF CEREBRAL WAVES OF PATIENTS WITH AMIOTROPHIC LATERAL SCLEROSIS THROUGH MATLAB IDENTIFYING ITS BASIC NEEDS	Fri 20	4	14:00-16:00

Program by tracks

	Track 11.1: (Robotics and Artificial Intelligence and Vision)				
#	**Authors**	**Title**	S	R	Time
9	Danny Sotomayor, Milton Rosero, Diego Benitez and Paola Leon	A Real-Time Vehicle Identification System Implemented on an Embedded ARM Platform	Wed 18	2	1416:00
15	Pablo Ramos and Erick Vallejo	Evolutionary learning algorithm for the navigation of mobile robots in unstructured or partially structured environments	Wed 18	2	14:16:00
222	Alan Maldonado-Ramirez, Ismael Lopez-Tharez, Reyes Rios-Cabrera, Roman Osorio-Comparan, Mario Peña-Cabrera and Gaston Lefranc	A Fault Compensation Algorithm for a Distributed Manufacturing System	Wed 18	2	14:00-16:00
269	David Ortega-Aranda, Ismael Lopez-Tharez, Baiyda Saha, Roman Osorio and Gaston Lefranc	Towards Learning Contact States during Peg-in-hole Assembly with a Dual-Arm Robot	Wed 18	2	14:00-16:00
137	Luis Delfin Rojas Puron, Ana Carolina Oliveira Lima, Joao Evangelista Neto, Luis Miguel Rojas Aguilera and Daniel Guzman Del Rio	Procedure neuro-fuzzy with application in inferential sensor	18	2	14:001 6:00

Wednesday 18 Track 11.2: (Robotics and Artificial Intelligence and Vision)					
#	**Authors**	**Title**	S	R	T
139	Claudio Morales and Pablo Adasme	Modeling a Simple Traveler Salesman Problem for Improving Energy Efficiency in Robots that Execute Computer Numerical Control Machining	Wed 18	2	16:301 8:30
156	Ademir Roberto Freddo, Robison Cris Brito, Francisco Reinaldo and Renato Hallal	Classification of Latin Musical Genres by k-NN	Wed 18	2	16:301 8:30
160	Roman Osorio-Comparán, Alonso Segura, Ismael López-Thárez, Gaston Lefranc and Mario Peña	Smart Semaphore Using Image Processing	Wed 18	2	16:301 8:30
192	Antonio Marcos Melo Medeiros, Jose Artur Cardoso de Oliveira Thnior, Pedro Henrique Pinheiro Lima, Antonio Eliseu Holdefer and Jose Wilson de Lima Nerys	DEVELOPMENT OF A REMOTELY OPERATED SUBMARINE VEHICLE	Wed 18	2	16:301 8:30
215	Mario Peña, Roman Osorio, Gaston Lefranc, Victor Lomas and Mauricio Ontiveros	Contourn Descriptor Generation Algorithm Implemented in Embedded System	Wed 18	2	16:301 8:30
220	Paola Montufar, Hugo Salazar, Wilbert Aguilar, Luis Segura and David Loza	Kalman Filter Implementation in a Working Cell to Classify Parts that are in Motion	Wed 18	2	16:301 8:30

	Track 11.3: (Robotics and Artificial Intelligence and Vision)				
#	**Authors**	**Title**	S	R	Time
25	Daniel Aguilera Castro, Manuel Neira Cárcamo, Cristhian Aguilera Carrasco and Luis Vera Quiroga	Stairs recognition using Stereo Vision-based algorithm in NAO robot	Th 19	6	14:00-18:00
224	Jessica Fernanda Pereira Zamaia and Leonimer Flávio de Melo	Nonholonomic Mobile Robot Prototype for Standalone Navigation with Embedded System	Th 19	6	14:00-18:00
227	Nelson Campos, Heron Monteiro, Alisson Brito, Antônio Mn Lima, Elmar Melcher and Marcos Morais	A Framework for Quick Design and Validation of Face Detection Systems	Th 19	6	14:00-18:00
95	Salomé Martínez, Anahí Carvajal, Luis Segura, Alexander Ibarra and David Loza	Collaborative two-arm robotic torso for the development of an assembly process	Th 19	6	14:00-18:00
247	Rodrigo Castro, Daniel Ochoa and Ronald Criollo	On the influence of spectral calibration in hyperspectral image classification of leaves	Th 19	6	14:00-18:00
	Thursday 19 Track 11.4: (Robotics and Artificial Intelligence and Vision)				
#	**Authors**	**Title**	S	R	Time
249	Boris L. Martinez-Jimenez, Yunier Valeriano-Medina and Ana E. ThFrir-Ayala	Fuzzy Modeling and Control for an AUV Movement in Horizontal Plane	Th 19	6	16:30-18:30
253	Wilbert G. Aguilar	RRT Connect-Dynamic Domain for Virtual Bronchoscopy	Th 19	6	16:30-18:30
254	Wilbert G. Aguilar	Motion Intention Optimization for Multirotor Robust Video Stabilization	Th 19	6	16:30-18:30
255	Wilbert G. Aguilar	Wireless communication system for the transmission of thermal images from a UAV	Th 19	6	16:30-18:30
258	David Orbea, Jessica Moposita, Wilbert G. Aguilar, Manolo Paredes, Rolando P. Reyes Ch. and Luis Montoya	Vertical take off and landing with fixed rotor	Th 19	6	16:30-18:30
Friday 20	Track 11.5: (Robotics and Artificial Intelligence and Vision)				
#	**Authors**	**Title**	S	R	Time
259	Elizabeth Olson, Nathalie Risso, Adam Johnson and Jonathan Sprinkle	Fuzzy Control of an Autonomous Car using a Smart Phone Camera	Fri 20	3	9:00-10:30
266	David S. Sandoval and Wilbert G. Aguilar	Analysis of a Laser Range Finder for Odometry on Indoor Mobile Robots	Fri 20	3	9:00-10:30
232	Ricardo Fernando Nunes and Suely Cunha Amaro Mantovani	Inverse kinematics of robotic manipulators mapping using parallel configured RNAS applied to a 5 DOF manipulator controlled by Intel® Galileo Gen 2	Fri 20	3	9:00-10:30
290	Patricia Muñoz Bustos, Sonia Salvo Garrido, Millaray Curilem Saldias, Horacio Miranda Vargas and Mónica Bravo Sanzana	Selection of determinant attributes for the results of the SIMCE Matemática 2015 of 8º degree, Region de La Araucanía Chile, using Genetic Algorithms and Support Vector Machines	Fri 20	3	9:00-10:30

	Track 11.6: (Robotics and Artificial Intelligence and Vision)				
#	**Authors**	**Title**	S	R	Time
270	Jovanny Bedoya Guapacha and Suely Cunha Amaro Mantovani	Real time object detection and tracking using the Kalman Filter embedded in single board in a robot	Fri 20	3	11:00-12:15
275	Ernesto Paiva-Peredo, Than Carlos Soto, William Ipanaqué, Cesar Cherre, Oscar Yañez and Gustavo Silva	Design of the Position Control of a Quad-rotor using Optical Flow Sensor and LIDAR	Fri 20	3	11:00-12:15
276	William Gutiérrez and Marcela Jamett	ReconociWednto facial de personas mediante visión artificial y redes neuronales artificiales	Fri 20	3	11:00-12:15

Program by tracks

	Track 12.1: (Power Electronics)				
#	**Authors**	**Title**	S	R	Time
1	Marco Rivera, Zhengfei Di, Jiawei Zhang and Patrick Wheeler	Indirect Predictive Control Strategy with Mitigation of Input Filter Resonances for a Direct Matrix Converter	Fri 20	5	9:00-10:30
2	Marco Rivera, Handbing Dan, Luca Tarisciotti and Patrick Wheeler	Indirect Model Predictive Control Strategy with Active Damping Implementation for a Direct Matrix Converter Operating at Fixed Switching Frequency	Fri 20	5	9:00-10:30
77	Ponkumar. S, Famitha Kamroon. S, Marco Rivera and Ganesh Kumar S	REALIZATION OF CASCADED MULTILEVEL INVERTER	Fri 20	5	9:00-10:30
114	Elmer Osman Hancco Catata, Diodomiro Baldomero Luque Carcasi and José Luiz Azcue Puma	Comparative Analysis of Two Torque Control Strategies for 6/4 Switched Reluctance Machine	Fri 20	5	9:00-10:30
	Track 12.2: (Power Electronics)				
#	**Authors**	**Title**	S	R	Time
170	Nelson Aros, Vanessa Mora and Claudio Alarcon	Model Predictive Control for Synchronous Reluctance Motor Drive	Fri 20	5	11:00-12:15
180	JaFrir Muñoz, Ignacio Torres and Johan Guzman	Modulation Index Sweep for Selective Harmonic Elimination Technique for a 27-Level Asymmetric Multilevel Converter	Fri 20	5	11:00-12:15
190	Cristián Pesce G., Rubén Peña and JaFrir Riedemann	An Improved DC-DC Modified Flyback Converter Topology with High Efficiency	Fri 20	5	11:00-12:15
218	Diego Soto-Sanchez, Marcelo Hernandez, Ivan Andrade and Ruben Peña	Control of an Asymmetric Alternate Arm Converter for HVDC	Fri 20	5	11:00-12:15

Program by tracks

	Track 12.3: (Power Electronics)				
#	Authors	Title	S	R	Time
281	JaFrir Muñoz, Patricio Gaisse, Fausto Cadena, Carlos Baier and Rodrigo Aliaga	Proportional Resonant Controller for a 27-Level Asymmetric Multilevel STATCOM	F20	1	14:00-16:00
282	S. Toledo, E. Maqueda, Marco Rivera, R. Gregor, D. Caballero, F. Gavilán and J. Rodas	Experimental Assessment of IGBT and SiC-MOSFET based Technologies for Matrix Converter using Predictive Current Control	Fr 20	1	14:00-16:00
283	S. Toledo, Marco Rivera, JaFrir Muñoz, R. Peña and J. Riveros	Predictive Torque and Flux Control with Reactive Power Minimization for a Multi-Drive Indirect Matrix Converter System operating at Fixed Switching Frequency	F20	1	14:00-16:00
285	Marco Rivera, M. Amirbande, Aabolfazl Vahedi, Luca Tarisciotti and Pattrick Wheeler	Fixed Frequency Model Predictive Control with Active Damping for an Indirect Matrix Converter	F20	1	14:00-16:00
286	Marco Rivera, Usman Nasir, Luca Tarisciotti, Pattrick Wheeler, Tomislav Dragicevic and Frede Blaabjerg	Predictive Control Strategies for an Indirect Matrix Converter Operating at Fixed Switching Frequency	20	1	14:00-16:00
287	Felipe Herrera, Marco Rivera and Jose Agustin Riveros Insfran	Implementation of Modulation and Control Techniques for Multilevel NPC Converters	F20	1	14:00-16:00

Program by tracks

	Track 13.1: (Agrofoods)				
#	Authors	Title	S	R	Time
6	Andres Aramburu Pardo Figueroa, Jose Jose Manrique Silupu and Rafael Saavedra Garcia Zabaleta	Adaptive PID controller with auto-tuning applied to the agricultural food industry	20	4	9:00-10:30
143	Raúl Carrasco	Analysis of the water balance in plantations of strawberries, in the commune of San Pedro	20	4	9:00-10:30
187	Yetzabel González, Roberto Ahumada-García, Patricia Möller-Acuña and José Antonio Reyes-Suárez	A system for online quality analysis for cherry harvest process inside the orchard	20	4	9:00-10:30
188	Patricia Möller-Acuña, Roberto Ahumada-García and José Antonio Reyes-Suárez	An information System for online Quality Control of Export Fruits	20	4	9:00-10:30
	Track 13.2: (Agrofoods)				
260	Juan Soto, Ernesto Paiva, William Ipanaque, Jorge Reyes, Daniel Espinoza and David Mendoza	Cocoa bean quality assessment by using hyperspectral index for determining the state of fermentation with a non-destructive analysis	20	4	11:00-12:15
262	Christian Correa, Lorenzo Vasquez and Alan Vera	Development of Robotic System for Humus Productions. A Strategy for recycling Awareness	20	4	11:00-12:15

Wednesday 18 Track 14.1: (NExT-Brasil (Invited session)) **Program by tracks**					
#	**Authors**	**Title**	S	R	Time
42	Daywes Pinheiro-Neto, Elder Geraldo Domingues, Aylton Jose Alves and Wesley Pacheco Calixto	Investment Risk Analysis for Small Hydro Power Plants in the Short Term Market in Brazil	W 18	6	14:00-16
43	C.A. Silva, Luciano Santos, Wesley P. Calixto, Jose Luiz F. Barbosa, Marcela De Oliveira and Danilo Silva	Simulation and minimization of waiting time in rows of elevators of public buildings	W 18	6	14:00-16
45	Leandro Kazuaki Tsuruda, Wesley P. Calixto, Aylton J. Alves, Luiza Vitor and Marcel B. S. Souza	Evaluations of Energy Efficiency and Economic Impact of the application of Retrofit Lighting in Popular Housing	W 18	6	14:-16:
46	Viviane M. Gomes, Julyana P. Saraiva, Beatriz S. Lima, Paulo H. R. Flores, Alfredo O. Assis, Flavio A. Gomes, Alana S. Magalhaes, Junio S. Bulhoes, Calebe Abrenhosa, Gabriel A. Wainer and Wesley P. Calixto	Analytical method for calculating the sensitivity index of system parameters	18	6	14:00-16:00
47	Cleber A. Ganzaroli, Douglas F. De Carvalho, Rafael N. H. M. Dias, Luiz A. Couto, Daywes Pinheiro-Neto and Wesley P. Calixto	Nonlinear Practical Model Based Predictive Control: Study Case with DC Motor	18	6	14:00-16:00
49	Alan Silva, Wesley P. Calixto, Alana S. Magalhães, Uyara F. Silva and Aylton J. Alves	Conformal Mapping Applied to Encoding and Decoding of Images	W 18	6	14:00-16:00
Wednesday 18 Track 14.2: (NExT-Brasil (Invited session))					
#	**Authors**	**Title**	S	R	Time
51	Alana S. Magalhães, A. Alves, Calebe Abrenhosa Matias, W. Pacheco Calixto, Viviane M. Gomes, Alan Silva, Junio S. Bulhões, M. Reis, Geovanne P. Furriel and Gabriel Wainer	Synchronous Generator Plant Repowered by Parallel Operation with Induction Generator	W 18	6	16:30-18:30
53	José Cararo, Alan Silva, Bruno Aniceto, Márcio Reis, Bruno Rodrigues, Natália Galvão, Wagner Vilela Júnior, João Caetano Neto and Wesley P. Calixto	Optimizing of the insertion of distributed generation into a power distribution network	W 18	6	16:30-18:30
57	Jose Luiz F. Barbosa, Geovanne P. Furriel and Wesley Pacheco Calixto	Improved Optimization Methodology for High Power LED Matrix Luminaire	W 18	6	16:30-18:30
58	Karen Rezende, Luann Rodrigues, Pedro H. Maione Campos, Wesley Pacheco Calixto and Geovanne Pereira Furriel	Development of techniques to improve the performance of systems grounding electrical.	W 18	6	16:30-18:30
59	Júnio S. Bulhões, Alfredo O. Assis, Cristiane L. Martins, Geovanne P. Furriel, Brunna C. R. Silva, Luann Rodrigues, Márcio R. C. Reis, Débora F. Calheiros, Márcia D Oliveira and Wesley P. Calixto	Gap Filling in Time Series: A New Methodology Applying Spectral Analysis and System Identification	W 18	6	16:30-18:30

Wednesday 18 Track 14.3: (NExT-Brasil (Invited session)					
#	Authors	Title	S	R	Time
61	Márcio Reis, Wanderson Araújo, Wesley Calixto, Alana Magalhaes, Flávio Gomes and Gabriel Wainer	Nolinear Simulation Methodology for Switched Reluctance Machine Using Induction Profile Found By Parametric Regression	W 18	7	14:00-16:00
62	Laís F. A. Silva, Márcio R. C. Reis, Viviane M. Gomes, Júnio S. Bulhões, Michelle C. Silva, Brunna C. R. Silva, Rodrigo E. Costa, Aylton J. Alves, Everton L. Aleixo and Wesley P. Calixto	Socioeconomic, scientific and technological indicators as parameters for prediction model	W 18	7	14:00-16:00
65	Brunna Silva, Geovanne Furriel and Wesley Calixto	Devices Analysis And Artificial Neural Network Parameters for Sign Language Recognition	W 18	7	14:00-16:00
66	Luane Schiochet Pinto, Elder Geraldo Domingues, Daywes Pinheiro Neto, Fabricio Paiva Vieira, Simone Ramalho, Martin Heinz Eugen Tschudin and Giordani Pacifico Medeiros	Risk Analysis of the Electric Power Generation Potential from Biogas Coming from Vinasse Biodigestion	W 18	7	14:00-16:00
67	Giordani Medeiros, Elder Domingos, Daywes Pinheiro Neto, Airon Herbert Stach, Alessandro Costa, Luane Pinto, Wesley Calixto and Martin Tschudin	Technical and economic feasibility of using microturbines for the energy utilization of landfill gas	W 18	7	14:00-16:00

Wednesday 18 Track 14.4: (NExT-Brasil (Invited session))					
#	Authors	Title	S	R	Time
76	Geovanne Furriel, Calebe A. Matias, Sergio B. Oliveira, Jose G. Da Silva, Marcelo G. Narciso and Wesley Calixto	Acoustics applied in precision agriculture	W 18	7	16:30-18:30
69	Attyla Lino, Danilo Rocha, Brunna Silva, Wesley Calixto and Geovanne Pereira Furriel	Performance of Haar and LBP Features in Cascade Classifiers to White-flies Detection and Counting	W 18	7	14:00-16:00
193	Gilberto De Melo Junior, Sanderson M. Oliveira, Wesley P. Calixto, Cintia C. Ferreira, Geovanne P. Furriel and Ênio P. Vasconcelos Filho	Evaluation techniques of Machine Learning in task of reprovation prediction of Technical High School students	18	7	16:30-18:30
217	Erickssen B. De Melo, Gilberto De Melo Junior, Wesley P. Calixto and Márcio R. C. Reis	An application of genetic algorithm and the serial SGS for solving the RCPSP problem presented with recent benchmarks	W 18	7	16:30-18:30
60	Antonio P. Castro Junior, Wesley P. Calixto, Viviane M. Gomes, Lais F. A. Silva, Pedro H. M. Campos, Ernesto F. Veiga and Jose Luiz F. Barbosa	Ontology Applied in the Judicial Sentences	18	6	16:30-18:30

Program by tracks

Friday 20 Track 15: (GRSS-Geoscience and Remote Sensors (Invited session))					
#	Authors	Title	S	R	Time
261	Daniel Icaza	System for the Monitoring of Earth and Rock Flows due to overflows of high risk sites supported in Telecommunications Networks.	20	6	11:00-12:15
265	Gustavo Schleyer, Felipe Cid, Paulo Gallardo, María Elisa Arroyo, Marygrace Balinos and Cayetano Espinosa	Citizen Science for Wildlife Monitoring Support	20	6	11:00-12:15

Program by tracks

	Track 16: (IEEE-ABB (Invited session)) Winners in 2017 Contest Best Projects in Energy Efficiency.				
#	Authors	Title	S	R	Time
56	Williams Flores-Guerrero, Hugues Renaudineau and Samir Kouro	Microinverter based on series connected submodular photovoltaic power cells	Fri 20	3	16:30-17:50
174	Marco Oyarzo	Energy Efficiency in Electric Marine Propulsion	Fri 20	3	16:30-17:50
183	Daniel Sánchez, Antonio Sánchez-Squella, Álvaro Orellana and Dhruv Shah	Design and test of an On-grid Power converter used to connect a variable speed low voltage generator	Fri 20	3	16:30-17:50
280	Carlos Rojas, A. Iriarte, Mara Cea and Juan Pablo Cardenas-R	Thermal insulation materials based on natural fibers waste for application in sustainable buildings	Fri 20	3	16:30-17:50

Spring School onNetworks, SSN

Sponsors: IEEE Chile Section, ACM SIGCOMM, NIC Chile Research Lab, UChile

	Track 17: (SSN (Invited session))			
#	**Authors**	S	R	T
	Welcome to SSN	Thu 19	3	9:00
	Plenary Talk 6: Cristina Cano,Optimización de redes inalámbricas complejas: es machine learning la panacea? Irlanda.	Thu 19	3	9:30-10
	Plenary Talks 9 SSN; IoT para apoyo de Samat Cities.Sandra Céspedes, Universidad de Chile.	Thu 19	3	11-12
	Plenary Talks 10 SSN: Wiliam Isatagu- Internet of Things in Public Health - An Approach to Implementing Human Smart Cities	Thu 19	3	12-13
	Christian Lazo: Experiencia Smartcities en Valdivia.	Thu 19	3	14 15
	Francisca Varela- Organizaciones orientadas a los datos	Thu 19	3	15-16
	Sesión de Mentoring	Thu 19	3	16:30
	Second day (videos)	Fri 20	8	9- 9:30
	Marcia Paiva- Designing network topologies using graph invariants	Fri 20	8	9:30-10:3
	Isabel Amigo- Teoría de juegos cooperativa y su aplicación en redes.	Fri 20	8	11-12
	Jeanna Matheews- Los grandes problemas de "Big Data	Fri 20	8	12-13
	Presentaciones Estudiantes	Fri 20	8	14-16
289	Caterina Munoz, Francisco Cifuentes, Francisco Montoto and Javier Bustos-Jiménez. Building a Threshold Cryptographic Distributed HSM with Docker Containers			
291	Fabio Lima, Marcia Paiva and Marcelo Segatto. *Linear Time Optimal Amplifier Placement on OTNs*			
292	Daniela Bertolini Depizzol, Marcia Helena Moreira Paiva and Marcelo Eduardo Vieira Segatto. Evaluating community detection methods in a controlled experiment			
294	R. Alves, M. Rodrigues, M. Paiva and M. Segatto. A Note on Resilience of Telecommunication Netw			
	Premiación SSN. Closure	Fri 20	8	16:30

SSN Posters Presentations Friday 14:00 to 17:00

1	"A Proposal for a Mobile Internet QoS Forecasting Method Based on Passive Measurements". D. Madariaga.
2	"Performance Evaluation of HTTP/2 Window Size in the Internet of Things". Diego Londoño, Maite González, Sandra Céspedes, y Gabriel Montenegro.
3	"A middleware for creating physical mashups of things". Hernan Herrera y Romina Torres.
4	"Optimal Placement of Universal Data Aggregation Points for Smart Electric Metering based on Hybrid Wireless". Miguel Campaña, Esteban Inga y Roberto Hincapié.
5	"Dynamic Control of Beacon Transmission Rate with Position Accuracy in Vehicular Networks". Sandy Bolufé, Samuel Montejo-Sánchez, Cesar Azurdia-Meza, Sandra Céspedes, Richard Demo Souza y Evelio Martin Garcia Fernandez.
6	"Machine Learning Classifiers to Detect Malicious Websites". Christian Camilo Urcuqui López, Andrés Navarro Cadavid, Jose Luis Osorio Quintero y Melisa García Peña.
7	"Two deterministic strategies for finding shortest pairs of edge-disjoint paths". Marina Girolimetto, Marcia H. M. Paiva, Claunir Pavan, Fabio O. Lima y Rodrigo S. Tessinari.
8	"Towards a Context-aware Dissemination Mechanism for Vehicular Networks". Alexis Yáñez, Sandra Céspedes and Javier Rubio.
9	"Can we break the Internet?: A Robustness Analysis of the Internet Exchange Points (IXP) Network Graph".Alexandra Ibarra y Javier Bustos-Jiménez.
10	"Budget Allocation in Binary Opinion Dynamics". Susana Iglesias Rey, Patricio Reyes y Alonso Silva.
11	"Modelling the Internet as Spatially Constrained Interdependent Networks". Ivana Bachmann y Javier Bustos-Jiménez.
12	"Coordination of Autonomous Vehicles at Intersections with V2V (decentralized) communication" . Maite Gonzalez Mendoza, Benjamin Holloway, Alejandro Hevia y Sandra Cespedes.