

TRUSDAY 19

		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 Smart Cities.Sandra Céspedes, Universidad de Chile.				
12:00-13:00		Mesa Redonda: IOT. Coordina Víctor Grimblatt. Participan: Martín Cabrera Gerente Everis, Francisco Mardones, Industria Inteligente;		Plenary Talks 10: William Isatagu-IoT in Public Health - An Approach to Implementing Human Smart Cities				
13:00-14:00 Lunch								
14:00-16:00	Room 1	Room 2	Room 3:	Room 4	Room 5	Room 6	Room 7	Room 8
16:00-16:30	Track 9.1: 6 papers	Track 8.1: 5 papers	Christian Lazo Varela	Track 10.1: 5 papers	Track 1.1: 5 papers	Track 11.3: 5 papers	Track 7.3: 5 papers	Track .9.1: 5 papers
16:30-18:30 Cofee break								
Track	Energy & Power Systems Track 5	Aut. and Process Control Track 8	Track SSN	Track 10: Signal Processing	Track 1: Biome-dical Engineers	Track 11: Robotic	Track 7: TIC y communi-cation Track 7	Track 9: Eng. Education Track 9
20:00	Banquet Eligius Vancek, Honorary President of IEEE Chilecon2017. Present Héctor Kaschel Salgado, Carlos Muñoz presentation			About Distinction to Mario Award		Ceremony: IEEE Ingeniero Eminente, Presentation Gastón Lefranc, IEEE Chile Chair Award Ceremony IEEE-AIE Ingeniero. Dr. Antonio Ferreira, IEEE R9 Director(Latinameric) Victor Grimblatt President of AIE		

Track 8.1:(Automatic and Process Control – Session chairs: Román Osorio: México – Marco Rivera: Chile)				
Paper #	Authors	Title	Room	Time
48	Arathy Rajeev V.K., Marco Rivera and Ganesh Kumar S.	Twenty Eight Years of Passivity Based Control: A Review	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	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	2	14:00-16:00
87	Claudio Alarcon and Carlos Muñoz	Minimum Time Swing-Up Controller Applied to a Rotary Inverted Pendulum	2	16:30-18:00
278	Matías Veras, Roman Osorio-Comparán, Manuel Duarte-Mermoud, Antonio Rienzo and Gaston Lefranc	Variables Control of a Modular Greenhouse	2	14:00-16:00
Track 8.2:(Automatic and Process Control – Session chairs: Jose Oliden: Perú – Mario Fernandez: Chile)				
Paper #	Authors	Title	Room	Time
41	José Benavides Maldonado, Vilma Salinas Nalvay, Hernán Alvarado Romero, Gonzalo Riofrío Cruz, José Ochoa Alfaro, Jimmy Paladines and José Cuenca Granda.	Control of a Prototype for the Classification of Copper	2	16:30-18:00
122	José Oliden, José Manrique and William Ipanaqué	Modelling, simulation and Nonlinear Control of an Evaporator for Bioethanol production	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	2	16:30-18:00
148	Edwin Pruna, Edison Sásig and Santiago Mullo	PI and PID controller tuning tool based on the Lambda method	2	16:30-18:00
231	Sergio Castro, Byron Medina, Sergio Sepúlveda, Dinael Guevara and Luis Camargo	Methodology for Virtual Instruments development	2	14:00-16:00

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14:00-16:00	Track 9.1: 6 papers	Track 8.1: 5 papers	Track 10.1: 5 papers
16:00-16:30	Cofee break		
16:30-18:30		Track 8.2: 5 papers	Track 10.2: 5 papers
Track	Energy & Power Systems Track 5	Aut. and Process Control Track 8	SSN Track of Mentoring Track 10
			Track 1.2: 5 papers
			Track 11.4: 5 papers
			Track 7.4: 5 papers
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Track 11.3: (Robotics and Artif. Intelligence and Vision – Session chairs: Jessica Pereira: Brazil – Daniel Aguilera: Chile)				
Paper #	Authors	Title	Room	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	3	14:00 - 18:00
224	Jessica Fernanda Pereira Zamaia and Leonimer Flávio de Melo	Nonholonomic Mobile Robot Prototype for Standalone Navigation with Embedded System	3	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	3	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	3	14:00 - 18:00
247	Rodrigo Castro, Daniel Ochoa and Ronald Criollo	On the influence of spectral calibration in hyperspectral image classification of leaves	3	14:00 - 18:00
Track 11.4: (Robotics and Artif. Intelligence and Vision – Session chairs: Wilbert Aguilera: Ecuador – Boris Martínez: Chile)				
Paper #	Authors	Title	Room	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	3	16:30 - 18:30
253	Wilbert G. Aguilar, Vanessa Abad, Jenner Aguilar, Fabián Aguilar-Castillo, Leandro Álvarez and Sebastián Sandoval	RRT Connect-Dynamic Domain for Virtual Bronchoscopy	3	16:30 - 18:30
254	Wilbert G. Aguilar, Cecilio Angulo and Jorge A. Pardo	Motion Intention Optimization for Multirotor Robust Video Stabilization	3	16:30 - 18:30
255	Jorge A. Pardo, Wilbert G. Aguilar and Theofilos Toulkeridis	Wireless communication system for the transmission of thermal images from a UAV	3	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	3	16:30 - 18:30

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										Track 1.1 (Biomedical Engineering) – Session chairs: Marcos Rogger: Perú - Héctor Kaschel: Chile													
	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		Paper #	Authors		Title		Room	Time						
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?						7	Marcos Rogger Sacasqui Huaito, Ismael Sánchez Rodríguez-Morcillo and Edilberto Timecio Vasquez Diaz		Adaptive predictive control of dissolved oxygen concentration in a dynamic model of whiteleg shrimp culture		5	14:00-16:00						
10:30-11:00	Coffee Break										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		5	14:00-16:00						
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 Smart Cities.Sandra Céspedes, Universidad de Chile.					24	Jhon Hernandez Martin, German Antonio Mendieta Mendieta and Luis Alberto Parra Piñeros		Analysis and Design of Transtibial Prosthesis		5	14:00-16:00					
12:00-13:00	Mesa Redonda: IOT. Coordina Víctor Grimblatt. Participan: Martín Cabrera Gerente Everis, Francisco Mardones, Industria Inteligente;				Plenary Talks 10: Wiliam Isatagu-IoT in Public Health - An Approach to Implementing Human Smart Cities						75	Pablo Parra, Jomayra Jiménez, Nino Vega and Kleber Nuñez		Prototype of Exoskeleton Used in Child Rehabilitation with a Degree of Freedom.		5	14:00-16:00						
13:00-14:00	Lunch										85	Cesar Chavez, Jose Otero Otero and Nadira Gonzalez		Environmental Parameters Meter for Neonatal Intensive Care Units with Android Application for Mobile Devices		5	14:00-16:00						
Track 1.2 (Biomedical Engineering – Session chairs: João Paulo Martins: Brasil – Antonio Rienzo: Chile)																							
14:00-16:00	Room 1	Room 2	Room 3:	Room 4	Room 5	Room 6	Room 7	Room 8			Paper #	Authors		Title		Room	Time						
16:00-16:30	Track 9.1: 6 papers				Track 8.1: 5 papers				Track 10.1: 5 papers				89	João Paulo Virgílio Marinho Martins, Lourdes Mattos Brasil and Janice Magalhães Lamas		Unsupervised Feature Learning for Classification of Regions of Interest in Mammograms.		5	16:30-18:30				
16:30-18:30	Track 8.2: 5 papers				SSN Track of Mentoring				Track 10.2: 5 papers				93	Franklin Placencia, Víctor Manzano, Juan Pallo, Marco Jurado and Dennis Chicaiza		Embedded Device For Blood Pressure Monitoring		5	16:30-18:30				
Track	Energy & Power Systems Track 5		Aut. and Process Control Track 8		Track SSN		Signal Processing Track 10		Biome-dical Engineers Track 1		Robotic Track 11		TIC y communi-cation Track 7		Eng. Education Track 9		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		5	16:30-18:30
20:00	Banquet Eligius Vancek, Honorary President of IEEE Chilecon2017. Present Héctor Kaschel Salgado, Carlos Muñoz presentation						About Distinction to Mario Award						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		5	16:30-18:30				
Ceremony: IEEE Ingeniero Eminente, Presentation Gastón Lefranc, IEEE Chile Chair Award Ceremony IEEE-AIE Ingeniero. Dr. Antonio Ferreira, IEEE R9 Director(Latinameric) Victor Grimblatt President of AIE												123	Guillermo Avendaño, Antonio Rienzo, Gaston Lefranc and Miguel Bustamante		Biomedical Engineering Projects to Support The Elderly		5	16:30-18:30					

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12:00-13:00	Mesa Redonda: IOT. Coordina Víctor Grimblatt. Participan: Martin Cabrera Gerente Everis, Francisco Mardones, Industria Inteligente;				Plenary Talks 10: Wiliam Isatagu- IoT in Public Health - An Approach to Implementing Human Smart Cities			
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Track 17: (SSN <Invited session>)			
Activities	Session	Room	Time
Welcome to SSN	Thu 19	6	9:00
Plenary Talk 6: Cristina Cano, Optimización de redes inalámbricas complejas: ¿es machine learning la panacea? Irlanda.	Thu 19	6	9:30-10:30
Plenary Talks 9 SSN; IoT para apoyo de Samat Cities.Sandra Céspedes, Universidad de Chile.	Thu 19	6	11:00-12:00
Plenary Talks 10 SSN: Wiliam Isatagu- Internet of Things in Public Health - An Approach to Implementing Human Smart Cities	Thu 19	6	12:00-13:00
Christian Lazo: Experiencia Smartcities en Valdivia.	Thu 19	6	14:00-15:00
Francisca Varela: Organizaciones orientadas a los datos	Thu 19	6	15:00-16:00
Sesión de Mentoring	Thu 19	6	16:30

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	Mesa Redonda: IOT. Coordina Víctor Grimblatt. Participan: Martín Cabrera Gerente Everis, Francisco Mardones, Industria Inteligente;						Plenary Talks 10: Wiliam Isatagu-IoT in Public Health - An Approach to Implementing Human Smart Cities	
12:00-13:00	Lunch							
13:00-14:00	Room 1	Room 2	Room 3:	Room 4	Room 5	Room 6	Room 7	Room 8
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Track 7.3: (Information Technologies and Comm. Systems – Session chairs: Marco Jurado: Ecuador – María Estela: Chile)				
Paper #	Authors	Title	Room	Time
152	Washington Fernández and Krzysztof Herman	Union of code and Encryption for channels with Class A Noise	7	14:00-16:00
154	Andrés Salazar, Juan Pallo, Santiago Manzano, Carlos Nuñez, Marco Jurado, Julio Cují, Frnaklin Plascencia	Electronic System of Monitoring and Control for Distribution of Electricity in Households	7	14:00-16:00
157	Antônio Marcos Melo Medeiros, 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)	7	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	7	14:00-16:00
177	Maria Estela	A Barnes-Wall lattice general scheme for the K-user Symmetric Interference Channel	7	14:00-16:00
Track 7.4: (Information Technol. and Comm. Systems – Session chairs: Erwin Sacoto: Ecuador – Cristian Durán: Chile)				
Paper #	Authors	Title	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	7	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	7	16:30-18:30
198	Nicolás Matías Ortega Silva and Claudio Valencia Cordero	Towards Physical Layer Security systems design using Game Theory approaches	7	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	7	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	7	16:30-18:30

TRUSDAY 19

										Track 9.1: (Engineering Education – Session chairs: Malka Irina: Colombia – Flavio Torres: Chile)									
										Paper #	Authors	Title	Room	Time					
9:00-9:30	Room 1			Room 2			Room 3												
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10:30-11:00	Coffee Break										72	Víctor Proano and Marco Gualsaquí		Line Follower Simulator with Fuzzy Control		5	14:00-16:00		
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 Smart Cities.Sandra Céspedes, Universidad de Chile.								83	Flavio Torres		Intelligent instrumentation of a water tank system for educational purposes		5	14:00-16:00
12:00-13:00	Mesa Redonda: IOT. Coordina Víctor Grimblatt. Participan: Martin Cabrera Gerente Everis, Francisco Mardones, Industria Inteligente;			Plenary Talks 10: William Isatagu-IoT in Public Health - An Approach to Implementing Human Smart Cities								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		5	14:00-16:00	
13:00-14:00	Lunch										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		5	14:00-16:00		
14:00-16:00											130	Marco Pilatasig		Implementation of Fuzzy Controller in Low Cost Embedded Boards for a Flow System		5	16:30-18:30		
										Track 9.2: (Engineering Education – Session chairs: Huber Nieto-Chaupis: Perú – Jack Bravo-Torres: Ecuador)									
										Paper #	Authors	Title	Room	Time					
14:00-16:00	Room 1	Room 2	Room 3:	Room 4	Room 5	Room 6	Room 7	Room 8											
16:00-16:30	Cofee break										146	Benito Bernardo León-Ullauri, Jack Fernando Bravo-Torres, Roque Daniel Contreras-Chacón, Jennifer Andrea Yépez-Alulema, Diego Andrés Cujidután and Paul Esteban VintiWedlla-Tapia		Detection and recommendation of experts/authorities of Mendeley and Twitter topics for learning stimulation		5	16:00-17:50		
16:30-18:30											248	Huber Nieto-Chaupis		Merging Topics of Advanced Telecommunication in the Capstone Project of the Electrical and Network Engineering Program of Peruvian Universities		5	16:00-17:50		
Track	Energy & Power Systems Track 5	Aut. and Process Control Track 8	SSN Track of Mentoring Track SSN	Signal Processing Track 10	Biome-dical Engineers Track 1	Robotic Track 11	TIC y communication Tracks 7	Eng. Education Track 9											
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Ceremony: IEEE Ingeniero Eminente, Presentation Gastón Lefranc, IEEE Chile Chair Award Ceremony IEEE-AIE Ingeniero. Dr. Antonio Ferreira, IEEE R9 Director(Latinameric) Victor Grimblatt President of AIE										271	Edwin Malagon and Alexis Rojas Cordero		Análisis y Simulación de grafos aplicados a la enseñanza con programación paralela en HPC		5	16:00-17:50			