

Time	Room A	Room B	Room C
8:40 a 9:00	<b>Opening</b>		
9:00 a 10:20	<b>Keynote 1: Submicrometer Technologies</b>		
10:20 a 10:40	<b>Break</b>		
10:40 a 11:00	Machine Learning 1 (12)	Communications 1 (30)	Digital Systems 1 (30)
11:00 a 11:20	Machine Learning 2 (94)	Communications 2 (55)	Digital Systems 2 (34)
11:20 a 10:40	Machine Learning 3 (122)	Communications 3 (78)	Signal Processing 3 (32)
11:40 a 11:50	<b>Break</b>		
11:50 a 12:10	Software Engineering 1 (13)	Computer Vision 1 (71)	Signal Processing 1 (16)
12:10 a 12:30	Data Bases (82)	Computer Vision 2 (110)	Signal Processing 2 (24)
12:30 a 14:20	<b>Session on Selected Papers for the Rashid Award (29, 49, 85, 99, 103)</b>		
14:20 a 15:00	<b>Break for lunch</b>		
15:00 a 15:20	Computer Networks 1 (54)	Artificial Intelligence 1 (42)	Image Processing 1 (18)
15:20 a 15:40	Computer Networks 2 (75)	Artificial Intelligence 2 (74)	Image Processing 2 (26)
15:40 a 16:00	Computer Networks 3 (107)	Artificial Intelligence 3 (79)	Image Processing 3 (37)
16:00 a 16:20	Computer Networks 4 (120)	Artificial Intelligence 4 (80)	Image Processing 4 (58)
16:20 a 16:40	Computer Networks 5 (70)	Artificial Intelligence 5 (96)	Image Processing 5 (91)
16:40 a 17:00	<b>Brindis</b>		
17:00 a 20:00	<b>Tutorial (3 hours)</b>		

Paper	Title	Authors
4	FPGA Implementation of Pseudorandom Number Generators with a Generic 2-D Cellular Automata Architecture	Delgadillo-Escobar, M., Torres
12	Competitive Learning for Self Organizing Maps used in Classification of Partial Discharge	Jaramillo-Vacio, R., Ochoa-Zezzatti, A., Ponce, J. & Rios-Lira, A.
13	A Novel Approach for Generating Multi-Device Rich Internet Applications	Alor-Hernández, G., Colombo-Mendoza, L. O. & Rodríguez-González, A.
16	Reduction of Temporal Complexity in Markov Decision Processes	Avina-Cervantes, J. G., García-Hernández M.G., Ledesma-Orozco, S. & Ruiz-Pinales J.
18	Using adaptive threshold to detect pedestrians crossing on a street for Advanced Driver Assistance Systems	Martínez-Carballido Jorge & Morales-Velázquez Moisés
24	Methods for Analysis of Time-Resolved Fluorescence Data	De La Rosa-Vázquez, J.M., López-Porfirio, R., Moreno-García, E. & Stolik-Isakina, S.
26	Bayesian Entropy Estimation: Applications in Robust Image Filtering	De La Rosa, E., De La Rosa, J.I., González E., Gutiérrez O. & Villa J.
29	Generation of an Architecture View for Web Applications using a Bayesian Network Classifier	Castrejón, J., Lozano, R. & Vargas-Solar, G.
30	Mitigation of Fading for Data Rate Reduction (DRR) for a Wideband Channel	Aragón-Zavala, A., Cuevas-Ruiz J.L. & Pech-Carmona, J.H.
32	GEARC: Application to generation and analysis of chaotic noise	Cortés, C., Reyes, R., Rojas, C. & Vázquez, R.
34	Digital noise generator based in a one-dimensional tent chaotic map on FPGA	Duchén-Sánchez, G.I., Martínez-Nonth, J.A., Palacios-Luengas, L., Rojas-López, C.E. & Vázquez-Medina, R.
37	BICAD: Breast Image Computer Aided Diagnosis for Standard BIRADS 1 and 2 Calcifications	Lara-Rodríguez, L.D., López-Meléndez, E. & López-Olazagasti, E.
42	Performance Comparison of Three Topologies of the Island Model of a Parallel Genetic Algorithm Implementation on a Cluster Platform	Andalon-García, I.R. & Chavoya, A.
49	High Performance Controller Design Applied to the Induction Motor via Quasi-Continuous SOSM	Castellanos, M.I., Morfin, O.A., Ramírez, J.C., Rodríguez, R.J. & Valenzuela, F.A.
54	A Lightweight and Secure Protocol to Access Web Services in 6LoWPAN Networks	Amezcu-Valdovinos, I., Figueroa-Millán, P.E., Hernández, V.H. & Pérez-Díaz, J.A.
56	Design of an Array Based on an Antipodal Balanced Vivaldi Antenna	Choquehuanca-Zevallos, J.J., Javashvili-Avashvili, O., Molina-Alvarez, M.M. & Talavera-Ormeño, C.K.
58	A Novel Strategy for Image Segmentation of Latent Fingerprints	Hernandez-Mier, Y., Morales-Sandoval, J.M., Nuno-Maganda, M.A. & Ruiz-Echartea, E.
70	Detecting Anomalies in Network Traffic Using Entropy and Mahalanobis distance	Santiago-Paz, J., Torres-Román, D. & Velarde-Alvarado, P.
71	Detecting automobiles on real street environment for Advanced Driver Assistance Systems by its projected shadow	Martinez-Carballido, J. & Perez-Aguilar, E.
74	MOGARS: Multi-objective Genetic Algorithm for the discovery of Regulatory Sequences	González, J.A., López, A. & Hernández-Domínguez, J.L.
75	The Role of Entropic Index for Detection of Anomalous Behaviors in a VoIP System	Argáez, J., Toral, H. & Torres, D.
78	Voice Communication through the Internet for Mobile Devices	Delgado-Hernández, J.C., Flores-Llamas, I., Lovera-Granados, F. & Mounyadi, F.
79	Development of analytical abilities and collaborative learning assessment in undergraduate students through simulation games	Jimenez-Munguia, M.C. & Luna-Reyes, L.F.
80	A Semantic Proposal for Managing Forestry Information via Web	Fernández, Y.M., Guerra, E.J., Medina, R.C. & Soria, J.
82	Use of Chatterbot for Accessing Learning Objects on Mobile Devices With a Data Mining Search Engine	Alvarez, F.J., Calvillo-Moreno, E.A., Meza, M., Muñoz-Arteaga, J. & Padilla, F.
85	A BCI motor imagery experiment based on parametric feature extraction and Fisher Criterion	Baker, M., Carrera-León, O., D'croz-Baron, D., Ramírez-Cortés, J.M. & Alarcon-Aquino, V.
91	Inverse Halftoning Using a Multilayer Perceptron Neural Network	Nakano, M., Pelcastre, F. & Rosales, L.
94	Evaluation of Machine Learning techniques for Face Detection and Recognition	García-Amaro, E., Morales-Sandoval, M. & Nuño-Maganda, M.A.
96	Evaluation of a parallel approach implementation of the p-stable semantics	Carballido, J.L., López, D. & Zepeda-Cortes, C.
99	Multimodal interaction for service robot control	Caballero-Morales, S.O., Luis-Pérez, F.E. & Trujillo-Romero, F.J.
103	A Multiprocessor Real-Time Scheduling Simulation Tool	Díaz-Ramírez, A., Mejía-Álvarez, P. & Orduno-Valenzuela, D.K.
107	Evaluation of CORBA and Web Services in Distributed Applications	Aceves-Fernandez, M., Sotomayor-Olmedo, A., Barriga-Rodríguez, L., Jiménez-Hernández, H., Moya-Morales, J.C. & Pedraza, J.C.
110	Three dimensional dynamic measurements using a stereo vision system and optical flow algorithms for high speed video applications	López-Padilla, V.E. & Parra-Escamill, G.A.
120	Fast Messaging Network Based Network Virtualization	Wan, Z.
122	Recognition and Classification of Cardiac Murmurs using ANN and Segmentation	Flores, R.A., Rios-Gutierrez, F. & Strunic, S.

Time	Room A	Room B	Room C
9:00 a 10:20	Keynote 2: Interactive Resources in Education		
10:20 a 10:40	Break		
10:40 a 11:00	Bioengineering 1 (69)	Pattern Recognition 1 (14)	Digital Systems 4 (66)
11:00 a 11:20	Bioengineering 2 (115)	Pattern Recognition 2 (33)	Digital Systems 5 (67)
11:20 a 11:40	Bioengineering & Instrumentation 1 (109)	Pattern Recognition 3 (61)	Digital Systems 6 (111)
11:40 a 11:50	Break		
11:50 a 12:10	Bioengineering & Instrumentation 2 (47)	Pattern Recognition 4 (72)	Human Computer Interaction 1 (09)
12:10 a 12:30	Bioengineering & Instrumentation 3 (52)	Pattern Recognition 5 (73)	Human Computer Interaction 2 (108)
12:30 a 12:50	Bioengineering & Instrumentation 1 (87)		Computer Graphics (45)
12:50 a 15:00	Break for lunch		
15:00 a 15:20	Robotics 1 (90)	Power 1 (31)	Signal Processing 4 (39)
15:20 a 15:40	Robotics 2 (89)	Power 2 (55)	Signal Processing 5 (53)
15:40 a 16:00	Robotics 3 (19)	Power 3 (84)	Signal Processing 6 (92)
16:00 a 16:20	Robotics 4 (93)	Power 4 (101)	Signal Processing 7 (86)
16:20 a 16:30	Break		
16:30 a 20:00	Tutorial (3.5 hours)		

Paper	Title	Authors
9	A Proposal for Using the Internet of Things Concept to Increase Children's Health Awareness	Jiménez-García, E., Navarro-Cota, C., Nieto-Hipolito, J.I., Sánchez-López, J.D. & Vázquez-Briseno, M.
14	Keyword Word Recognition using a Fusion of Spectral, Cepstral and Modulation Features	Chu, T. & Gopalan, K.
19	An Autonomous Robot Based on a Wheelchair	Gaona, F., Gonzáles, R. & Peralta, R.
31	Design of wind turbine blades of a power of 1000 watts for domestic use	Perez-Aguirre, J.M.C. & Vega-Fuentes, J.
33	Visual data mining over a video wall	Chapa-Vergara, S.V. & Ramirez-Rivera, L.P.
39	DSP-Based Oversampling Adaptive Noise Canceller for Background Noise Reduction for Mobile Phones	Escamilla-Hernández, E., Sánchez-García, J. C. & Tavares-Reyes, J.A.
45	Acceleration of the reflectance field acquisition using independent component analysis	Arias, M.O. & Rosas, M.L.
47	Design and Construction of Phototherapy System with Temperature Control	De La Rosa-Vázquez, J.M., López-Silva F.Y. & Stolik, I.S.
52	Experimental tests in tissue phantoms of a photoirradiation system with optical dosimetry for Photodynamic Therapy	De La Rosa, J.M., Quintanar, L. & Stolik, S.
53	Design and Implementation of the Discrete Wavelet Transform on an FPGA Platform to Process Data Sets of up to Three Dimensions	Alarcon-Aquino, V., Escamilla-Ambrosio, J., Ramirez-Cortés, J.M. & Rivera-Juarico, E.A.
55	Use of Evolutionary Algorithms for Design Optimization of Power Converters	Medina, M.A., Ramirez, J.M. & Visairo, H.
61	Recognition of fungiform papillae in tongue images	Herrera R., Marin, A., Montes, F., Rios, H. & Silva, E.
66	Addition of BDC Digits using Non-Standard Codes	Coulston, C. & Vibhuti, D
67	Multiplication by Complements	Coulston, C. & Vibhuti, D.
69	Organic Nanopatch Device Improves Sleep and Enhances Vital Organ Function	Blake-Greenberg, S. & Nazeran, H.
72	Speaker recognition using Mel Frequency Cepstral Coefficients (MFCC) and Vector Quantization (VQ) Techniques	Escamilla, E., Martínez, J., Pérez, H. & Suzuki, M.
73	Endpoint Detector Algorithm for Speech Recognition Application	Escamilla-Hernandez, E., Escoto-Sotelo, E.A., Garcia-Rios, E. & Perez-Meana, H.M.
84	Real Time Harmonic Elimination Using a Modified Carrier	Gupta-Gourisetti, S.N. & Patangia, H.
86	Chirp Signal Detection using The Duffing Oscillator	Bermudez-Gómez, C., Enríquez-Caldera, R. & Martínez-Carballido, J.
87	The Effects of Blood Glucose Changes on Frequency-domain Measures of HRV Signal in Type 1 Diabetes	Amanipour, R., Franco, M., Haliwanger, E., Nazeran, H. & Reyes, I.
89	Using Color Histograms and Range Data to Track Trajectories of Moving People from a Mobile Robot Platform	Marin-Hernandez, A., Marin-Urias, L.F. & Rivera-Bautista, J.A.
90	Mathematical Concepts on Classical Mechanics using Computational Methods	Chavez-Barranco, S., Enriquez-Caldera, R. & Martinez-Carballido, J.
92	Audio Watermarking of WAV Files by Echo Modulation	Aguilar-Torres, G., González-Lee, M., Hernández-Escamilla, E. & Ríos-Chávez, J.A.
93	Embedded system applied to obstacles detection in a mobile controlled by a PC via RF	Arriaga-Martínez, A., Cabrera-Santos, F., García-Gregorio, T., Italo-Cortes, J., Laríos-Gómez, M., López-Marin, C.N., Rubín-Linares, G. & Saldaña-González, G.
101	Implementation of the direct torque control (DTC) in current model for induction motor drives, with current starting limiter	Cortez-Georgievna, L., Mino-Aguilar, G., Muñoz-Hernández, G.A., Romeral, J.L. & Saynes-Torres, J.
108	Combining gestures and graphical elements for collaboration using multi-touch surfaces	Magallanes, Y., Molina, A. & Sánchez-Huitrón, J.A.
109	A remote monitoring system for a mechanotherapy device in neuromuscular rehabilitation	González, B., Martínez-Sibaja, A., Posada-Gomez, R., Sandoval-Gonzalez, O.O., Trujillo-Caballero, J.C. & Trujillo-Caballero, M.A.
111	Finite Fiel Polynomial 16-bit Multiplier for Power Constrained Devices	Flores-Escobar, J.A., Salinas-Rosales, M. & Velázquez-López, J.
115	Software for Inverse Voltage Calculations in the Heart's Surface	Ainseba, B., Bendahmane, M. & Lopez-Rincon, A.

Time	Room A
9:00 a 10:20	Keynote 3: Answer Set Programming
10:20 a 10:40	Break
10:40 a 11:00	Social Network (98)
11:00 a 11:20	Networks Security (36)
11:20 a 11:40	Optical Communication (83)
11:40 a 11:50	Break
11:50 a 12:10	Book presentation
12:10 a 12:30	Break
12:30 a 13:40	Keynote 4: Service robots
13:40 15:20	Break for lunch
15:20 a 15:40	Control 2 (48)
15:40 a 16:00	Control 3 (124)
16:00 a 16:20	Closing
16:20 a 16:40	Break
17:00 a 20:20	Tutorial (3.5 hours)

Paper	Title	Authors
36	Elliptic Curve Cryptography on Windows CE devices	Morales-Sandoval, M., Nuño-Maganda, M.A., Ruiz-Méndez, M. & Trujillo-Vázquez, A.L.
48	Embedded attitude control system for the educative satellite SATEDU	Arias-Estrada, M., Colin-Robles, J.A., Mendoza-Bárceñas, M.A., Mendoza-Nucamendi, I., Vivas-Esaú, V. & Vizcaino-Torres, E.
83	Atmosphere Analysis and Measurements via Free-Space Optical Network	Libich, J., Mudroch, M. & Zvanovec, S.
98	Afterlife Presence on Facebook: a Preliminary Examination of Wall Posts on the Deceased's Profiles	Castro, L. & Gonzalez, V
124	Automatic Control for Laboratory Sterilization Process based on Arduino Hardware	Arizaga, J.A., Benitez, A., De la Calleja, J. & Hernández, R.

## KEYNOTES SPEAKERS

	Title	Authors
1	Design of Analog Integrated Circuits in Submicrometer Technologies	Jaime Ramírez Angulo
2	The Role of Interactive Digital Resources in Mathematics Education and Research.	José Luis Abreu León
3	Probabilistic Reasoning in Answer Set Programming — the P-log Approach	Michael Gelfond
4	Afterlife Presence on Facebook: a Preliminary Examination of Wall Posts on the Deceased's Profiles	Luis Enrique Sucar