| Time | Wednesday February 24, 2016 | | | Thursday February 25, 2016 | | | Friday, February 27, 2016 |
|---|---|---|---|---|---|---|---|
| | Auditorium Guillermo & Sofía Jenkins (UDLAP) | | | Auditorium Guillermo & Sofía Jenkins (UDLAP) | | | |
| | Central Room | Left Room | Right Room | Central Room | Left Room | Right Room | |
| 08:45-09:00 | **Opening Ceremony - Central Room** | | | | | | |
| | **Presenter : Ms. Dafne Denise Ortiz Ruiz** | | | | | | |
| 09:00-09:30 | **Plenary Talk**<br>**Linguistic Geometry for Development of Intelligent Defense Systems**<br>**Prof. Boris Stilman**<br>**University of Colorado Denver, USA & STILMAN Advanced Strategies, USA**<br>**Central Room**<br>**Chair: Dr. Ofelia Cervantes Villagómez** | | | **Plenary Talk**<br>**Towards the use of humanoid robots in disaster response scenarios**<br>**Dr. Rafael Cisneros**<br>**National Institute of Advanced Industrial Science and Technology (AIST), Japan**<br>**Central Room**<br>**Chair: Dr. José Luis Vázquez González** | | | |
| 09:30-10:00 | | | | | | | |
| **Morning Sessions** | Networks | Communications I | Soft Computing | Power Electronics & Simulation | Biomedical Engineering | Image Processing II | Tutorials |
| | Chair: Dr. Vicente Alarcón | Chair: Dr. Roberto Rosas | Chair: Dr. José Luis Zechinelli | Chair: Dr. Pedro Bañuelos | Chair: Dr. Rubén Alejos | Chair: Dr. Oleg Starostenko | Presenter : Dr. César Martínez |
| 10:00-10:30 | Paper #32 An evaluation of AES and PRESENT ciphers for lightweight cryptography on smartphones | Paper #2 Coupling Enhancement of Composite-Right/Left-Handed Loop Resonators for Filter Applications | Paper #11 Computing the chromatic number of a graph using maximal independent sets | Paper #43 Simulation, Construction, and Validation of a DC/DC Buck Power Converter–DC Motor System | Paper #25 Automatic Brain Tumor Tissue Detection based on Hierarchical Centroid Shape Descriptor in T1-weighted MR images | Paper #18 A tour of nonlocal means techniques for image filtering | Linguistic Geometry<br>HU 314, 10h00 – 13h00<br>Professor Boris Stillman<br>University of Colorado at Denver |
| 10:30-11:00 | Paper #22 Towards a 2-hybrid Android Malware Detection Test Framework | Paper #8 Implementation of the Error Coded Affine Projection Algorithm in the DSP TMS320C6713 | Paper #27 A parallel implementation of One-Sided Jacobi SVD for non-symmetric squared matrices on a high-performance GPU | Paper #46 Switched Implementation via Modulators of a Tracking Average Controller for a Boost Converter | Paper #37 Design of an HMI Electrical Impedance Tomography System based on Off-The-Shelf Components | Paper #44 Scorpions: Classification of poisonous species using shape features | |
| 11:00-11:30 | Paper #30 Image compressive sensing cryptographic analysis | Paper #17 On Spectrum Occupancy Measurements at 2.4 GHz ISM Band for Cognitive Radio Applications | Paper #42 Topological Characterization of the Public Transportation Complex Network in Puebla City, Mexico | | Paper #59 Design of a Video Game for Rehabilitation using Motion Capture, EMG analysis and Virtual Reality | Paper #49 Sparse Representation to Solve the Problem of Image Super-Resolution | |
| **Afternoon Sessions** | | | | FPGAs<br>Chair: MS Eduardo López | | Image Processing III<br>Chair: Dr. Daniel Vallejo | |
| 11:30-11:45 | Coffee break | | | | | | |
| 11:45-12:15 | **Plenary Talk**<br>**Investigating brain oxygen delivery with aging**<br>**Prof. Frédéric Lesage**<br>**École Polytechnique de Montréal / Montreal Heart Institute, Canada**<br>**Central Room**<br>**Chair: Dr. Edgar Guevara Codina** | | | Paper #50 FPGA – Based Hardware Processing Unit for Time-Frequency Representation of a Signal through Wigner-Ville Distribution | | Paper #48 Learning matte extraction in green screen images with MLP classifiers and the back-propagation algorithm | |
| 12:15-12:45 | | | | Paper #52 FPGA-Based Reconfigurable Unit for Image Encryption Using Orthogonal Functions | | Paper #57Feature Extraction Scheme for a Textural Hyperspectral Image Classification using Gray-Scale HSV and NDVI Images Features Vectors Fusion | |
| | | | | Paper #54 Support and monitoring trajectory paths for vehicles using mobile devices | | Paper #10 Detection and Diagnosis of Lubrication and Faults in Bearing on Induction Motors through STFT | |
| **Afternoon Sessions** | Modelling / Signal Processing I<br>Chair: Dr. José Luis Vázquez | Communications II<br>Chair: Dr. Jorge Rodríguez | Image Processing I<br>Chair: Dr. Alfredo Sánchez | | | | Tutorials<br>Presenter : MSc Eduardo J. Jiménez |
| 12:45-13:15 | Paper #41 Optimizing the length of an environmental audio fingerprint for place classification | Paper #26 Frame Synchronization Through Barker Codes Using SDRs in a Real Wireless Link | Paper #21 KNN-Based Image Segmentation For Grapevine Potassium Deficiency Diagnosis | | | | Automotive Networks<br>LA 116, 13h00 – 15h00<br>MSc Eduardo López<br>UDLAP |
| 13:15-13:45 | Paper #45 A note on the synchronization for a class of possible nonsmooth discrete chaotic systems | Paper #58 SCADA system design: a proposal for optimizing a production line | Paper #35 Features selection to detect fall pose using depth images | | | | |
| 13:45-14:15 | Paper #55 Reasoning on expressive description logics with arithmetic constraints | Paper #20 A Mobile Platform for Remote Monitoring of Water Quality on Live Fish Transport Containers: Lessons Learned | Paper #47 Image Denoising using Block Matching and Discrete Cosine Transform with Edge Restoring | | | | |
| 14:15-16:00 | Lunch on your own | | | | | | |
| | Tutorials | | | | | | |
| | Presenter : Dr. Gibran Etcheverry | | Presenter : Dr. Edgar Guevara | | | | |
| 16:00-19:00 | SIMULINK<br>IA 105<br>Professor David Baez<br>UDLAP | | NIRS (Near Infra-Red Spectroscopy)<br>HU 314<br>Professor Frédéric Lesage<br>École Polytechnique de Montréal / Montreal Heart Institute, Canada | | | | |