



8th International Work-Conference on Bioinspired Intelligence
 October 21-23, 2020 - Video-Conference
<http://iwobi.ulpgc.es/2020/>

IWOBI 2020 Final Program
 GMT-6:00 Winter timetable

INSTRUCTIONS:

Participants should make the registration process on the below link: https://itcr.zoom.us/webinar/register/WN_WvPMKKuJSLCPIBZi55yJBQ
 After the success register, authors will receive in their email all the links about the different sessions of this conference.

Wednesday 21th	Thursday 22th	Friday 23th
07:40-07:50 Opening Ceremony		
08:00-08:40 Plenary Speaker: Prof. Dr. Rodrigo Mora-Rodríguez Title: Biocomputational identification of complex networks mediating gene dosage compensation in cancer	08:00-08:40 Plenary Speaker: Prof. Dr. Francisco J. Vargas-Bonilla Title: More than a buzz: bioacoustics as a novel approach to improve insect control	09:20-10:00 Plenary Speaker: Prof. Dra. María del Mar Tavío-Pérez Title: Iridology for the Detection of Genetic Polymorphisms: An Alternative Method for the Diagnosis of ACE2 Polymorphsim
08:50-10:10: Session #1 COVID-19 and microbiology applications <i>Chairperson: MSc. Jeremias Ramírez-Jiménez</i> 1. Artificial Intelligence based Multi-sensor COVID-19 Screening Framework 2. Colorectal cancer vaccines: In silico identification of tumor-specific antigens associated with frequent HLA-I alleles in the Costa Rican Central Valley Population 3. Personalized patient ventilation at large scale the Mass Ventilation System 4. Automated Quantification of Ki-67 on Gastric Epithelial Tissue based on Cell Nuclei Area Ratio	08:50-10:10: Session #3 Image and video processing <i>Chairperson: Dr. Juan Pablo Soto-Quiros</i> 1. Two-dimensional gel electrophoresis image analysis of two Pseudomonas aeruginosa clones 2. Transformation of RGB images to Munsell soil-color charts 3. Measuring Traffic Dynamics at the Edge 4. Automated Adenocarcinoma Lung Cancer Tissue Images Segmentation based on Clustering	10:10-11:30: Session #5 Techniques and paradigms in applications <i>Chairperson: MSc. Esteban Arias Méndez</i> 1. An Efficient Convolutional Neural Network based Blood Cells Detection and Counting 2. Assessing the Effectiveness of Diarization 3. Assessing Costa Rican Children Speech Recognition by Humans and Machines 4. GPU based approach for fast generation of robot capability representations



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<p>10:20-12:40: Session #2 Biomedicine and related applications <i>Chairperson: Dr. Francisco Siles Canales</i></p> <ol style="list-style-type: none">1. A Deep Learning Approach for Epilepsy Seizure Detection using EEG Signals2. Automatic Diagnoses of Lower Back Pain using Gait Patterns3. The Impact of Social Media Messages on Parkinson's Disease Treatment: Detecting Genuine Sentiment in Patient Notes4. Pros and Cons of Computer Assisted Rehabilitation5. Accurate Symmetry Calculation with Normalized Dynamic Time Warping Gait Symmetry Ratio6. Psychophysiological Pattern Classification During Emotional Processing7. Artificial Intelligence for Prevention of Breast Cancer	<p>10:10-12:40: Session #4 Voice and audio systems <i>Chairperson: MSc. José Luis Vásquez- Vásquez</i></p> <ol style="list-style-type: none">1. Setting up the Audiomoth recorder for wildlife monitoring in the rainforest2. Exploring the potential of an audio application for teaching AI-based classification methods to a wider audience3. Assessing the Effectiveness of Transfer Learning Strategies in BLSTM Networks for Speech Denoising4. Comparison of Four Classifiers for Speech-Music Discrimination: A First Case Study for Costa Rican Radio Broadcasting5. Application of Fischer Semi Discriminant Analysis for Speaker Diarization in Costa Rican Radio Broadcasts6. An experimental study on footsteps sound recognition as biometric under noisy conditions.7. A first study on age classification of Costa Rican speakers based on acoustic vowel analysis.	<p>11:40-12:00 Closing Ceremony Best Papers Awards IWOBI 2021 Presentation</p>