FACULTAD DE INGENIERÍA EN
SISTEMAS, ELECTRÓNICA E INDUSTRIAL

UTA

IV CONGRESS IN COMPUTER SCIENCE , ELECTRONICS AND INDUSTRIAL

CSEI 2022

Program

IV CONGRESS IN COMPUTER SCIENCE , ELECTRONICS AND INDUSTRIAL

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IV CONGRESS IN COMPUTER SCIENCE , ELECTRONICS AND INDUSTRIALActivities and Sessions Details

from 7th to 11th of November 2022 / Time zone: Quito Ecuador

Monday Nov 7th 2022
Room Virtual
COMPUTER SCIENCE

> Join the online room: ID Zoom: 83015432176

Chair: Carlos Nuñez – *UTA*

09:00 – 09:30	INAUGURACIÓN CSEI 2022 Autoridades
09:30 – 10:30	Conferencia Magistral Expositor Daniel Jerez Mayorga Ecuador Seguridad Informática Agil
10:30 – 11:30	Conferencia Magistral Expositor Ruxandra Stoen Romania Deep Learning for computational support in the restoration of cultural heritage artefacts
11:30 – 12:00	(ID032) PCAnEn - Hindcasting with Analogue Ensembles of Principal Components
12:00 – 12:30	(ID024) Prediction models for car theft detection using CCTV camera and machine learning: A systematic review of the literature
12:30 – 13:00	(ID029) Optimization of vortex dynamics on a sphere
14:00 – 14:30	(ID055) Home Automation System for people with Limited upper limb capabilities Using Artificial Intelligence
14:30 – 15:00	(ID035) QR codes as a strategy in political marketing 2.0
15:00 – 15:30	(ID027) Methodology for Cyber Threat Intelligence with Sensor Integration
15:30 – 16:00	(ID030) Multi-Agent Architecture for Passive Rootkit Detection with Data Enrichment
16:00 – 16:30	(ID033) OSINT Methods in the Intelligence Cycle

Tuesday Nov 8th 2022
Room Virtual
COMPUTER SCIENCE AND ELECTRONICS
Join the online room ID Zoom: 83015432176

Chair: Carlos Nuñez – *UTA*

09:00 – 09:30	Conferencia Magistral Expositor Vanessa Salazar Ecuador Caracterización de señales P300 mediante causalidad de Granger en el contextò de Interfaces Humano-maquina.

09:30 – 10:00	Conferencia Magistral Expositor Carlos A. Rovetto Panamá Enfoque para optimizer la producción y demanda de energía eléctrica mediante sistemas de inecuaciones y modelo de regresión.
10:30 – 11:00	(ID031) Mobile marketing as communication strategy in politics 2.0
11:00 – 11:30	(ID003) Spatial Concentration Deaths from Chronic-Degenerative Diseases in the Province of Tungurahua (2016-2020) Ecuador
11:30 – 12:00	(ID042) Methodology to Improve the Quality of Cyber Threat Intelligence Production Through Open Source Platforms.
12:00 – 12:30	(ID050 Evualuation of web accessibility in the state citizen service portals most used by disabled people.
12:30 – 13:00	(ID060) Failure of Tech Startups: A Systematic Literature Review
14:00 – 14:30	(ID049) Optimizing User Information Value in a Web Search through the Whittle Index
14:30 – 15:00	(ID056) A Kinect-enabled electronic game for devel-oping cognitive and gross motor skills in 4-5-year-old children.
15:00 – 15:30	(ID011) Development of a controller using the generalized minimum variance algorithm for a twin rotor mimo system (TRMS)
15:30 – 16:00	(ID012) Metaheuristics of the artificial bee colony used for optimizing a pid dahlin on an arm platform
16:00 – 16:30	(ID002) Drone design for urban fire mitigation

Wednesday Nov 9th 2022

Room Virtual
ELECTRONICS
Join the online room ID Zoom: 83015432176

Chair: Carlos Nuñez – *UTA*

09:00 – 10:00	Conferencia Magistral Expositor Carlos Cano Domingo España On the use of ELF electromagnetic signals for ionosphere characterization: From signal processing to Deep Neural Network approaches.
10:00 – 10:30	(ID064) Drone collaboration using OLSR protocol in a fanet network for traffic monitoring in a smart city environment.
10:30 – 11:00	(ID038) Solar Panels for low Power Energy Harvesting.
11:00 – 11:30	(ID039) Effect of Slots in rectangular geometry Patch Antennas for energy Harvesting in 2.4 GHz Band.
11:30 – 12:00	(ID044) Monitoring and control System for energy Harvesting IoT applications.
12:00 – 12:30	(ID045) RF Energy Harvestign System based on Spiral Logarithmic Dipole Rectenna Array

12:30 – 13:00	(ID004) Electronic bracelet with artificial vision for assisting blind people.
14:00 – 14:30	(ID053) IoT flowmeter to obtain the real provision of drinking water of the Administrative Building at Universidad de las Fuerzas Armadas ESPE
14:30 – 15:00	(ID063) Application of the MQTT protocol for the control of a Scorbot Robot by means of EGG electroencephalographic signals.
15:00 – 15:30	(ID072) Interactive device for carpal tunnel rehabilitation
15:30 – 16:00	(ID073) Electronic biosignal monitoring system for the prevention of respiratory diseases by applying artificial intelligence.

Thursday Nov 10th 2022
Room Virtual
INDUSTRIAL ENGINEERING
Join the online room ID Zoom: 83015432176

Chair: Carlos Nuñez – *UTA*

09:00 – 10:00	Conferencia Magistral Expositor Carlos Peñafiel Ecuador Multifeed antenna designed by Characteristic Modes Theory
10:00 – 10:30	(ID036) Comparison of results beteween Hypemesh and Simsolid applied in the Structural Simulation in a car lift.
10:30 – 11:00	(ID062) Application of CFD for the redesign of a positive pressure mechanical flow generation device in covid treatment 19
11:00 – 11:30	(ID034) Hydraulic Systema A, B, and Standby Operational test in the boeing 737-500 Aircraft Flight Simulator.
11:30 – 12:00	(ID071) Augmented Reality System As A 5.0 Marketing Strategy in Restaurants: A case study in Ambato Ecuador
12:00 – 12:30	(ID075) Immersive technology-based guidance module for induction motor diagnosing.
12:30 – 13:00	(ID006) Statistical model for production planning in a vehicle assembler applying lean manufacturing.
14:00 – 14:30	(ID043) KPIs model focused on the evaluation of the inventory management of a textile company. A case study
14:30 – 15:00	(ID065) Facility layout proposal for a tannery, evaluated by the simulation software-Flexsim
15:00 – 15:30	(ID069) A FlexSim-based approach to efficient layout planning for a tire company
15:30 – 16:00	(ID066) Distribution of facilities to improve the raw material storage system

Friday Nov 11th 2022
Room Virtual
INDUSTRIAL ENGINEERING

Chair: Carlos Nuñez – *UTA*

09:00 – 10:00	Conferencia Magistral Expositor Pedro Escudero Ecuador Sensores y microfluídica de las aplicaciones Biomédicas a la Industria
10:00 – 10:30	(ID067) Plant distribution based on a resilient approach in textile SMEs.
10:30 – 11:00	(ID054) Diagnosis of digital maturity of SMEs in the province of Imbabura - Ecuador
11:00 – 11:30	(ID068) Model production based on industry 5.0 pillars for textile SMEs.
11:30 – 12:00	(ID013) Theory of restrictions for the improvement of production capacity in textile SMEs.
12:00 – 12:30	(ID058) Information and communication Technologies Adoption Model for SMEs. Case studies.
12:30 – 13:00	(ID070) Early stage proposal of a multi-tool Lean Manufacturing methodology to improve the productivity of a textile company
14:00 – 17:00	CLAUSURA CSEI 2022

CSEI 2023

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