



VIII INTERNATIONAL CONFERENCE

ON SCIENCE, TECHNOLOGY AND INNOVATION FOR SOCIETY



Reception

Jun 22th

Wednesday



ROOM FOR MULTIPLE PURPOSES (1st floor, Building D)

WORKSHOP 01

9:30 | 12:30 (GMT-5)

"Introduction to Big Data and social network analysis case study (Twitter)"

PhD. Roger Clotet, Universidad Internacional de Valencia (VIU), Spain

AUDITORIUM (1st floor, Building D)

WORKSHOP 02

9:30 | 12:00 (GMT-5)

"Business resilience in times of pandemic"

Dra. Raquel Sanchis Gisbert, Universitat Politècnica de València, Spain

AUTOTRONICS LAB (Mezzanine, Building E)

WORKSHOP 03

9:30 | 12:30 (GMT-5)

"Applications of submodeling in large-scale problems using finite element analysis"

PhD. José A. Alvarado Contreras, Universidad de Los Andes, Venezuela

MORNING

13:00
14:00

R E C E S S

AUDITORIUM (1st floor, Building D)

WORKSHOP 04

14:30 | 17:30 (GMT-5)

"Tips for writing and submitting scientific articles to international journals in engineering"

PhD. Alejandro Valencia Arias, Instituto Tecnológico Metropolitano, Colombia

COMPUTER LAB B1 (3rd floor, Building B)

WORKSHOP 05

14:30 | 17:30 (GMT-5)

"Simulation of internal combustion, electric, and hybrid vehicle powertrain systems"

Juan Diego Valladolid, Universidad Politécnica Salesiana Sede Cuenca, Ecuador

AFTERNOON



VIII INTERNATIONAL CONFERENCE

ON SCIENCE, TECHNOLOGY AND INNOVATION FOR SOCIETY



Reception

Jun 23th
Thursday

08:30
13:00

Registration to the Conference

Registration Bureau

(Building D, Hall next to the Aula Magna)

09:00
09:45

Inaugural Ceremony

AULA MAGNA (Low level/Planta baja, Building D)

09:45
10:45

Keynote Speech: "The convergence of smart people and cyborgs to make innovation for making resilient and smart cities"

Prof. Ignacio Castillo,

Universidad Autónoma de la Ciudad de México (UACM), México

AULA MAGNA

ROOM FOR MULTIPLE PURPOSES (1st floor, Building D)

11:00
12:00

Keynote Speech: "IEEE Standards: COVID-era Learning Technologies Powering Innovation and Standards Education Programs"
Prof. Ernesto Vega Jánica, IEEE Standards Association Senior Manager, E.U.A.

12:00
12:15

P14. Monitoring and adaptation of assessment activities in a VLE supported by learning analytic
Joe Llerena-Izquierdo, M. Elena Rodríguez and Ana Guerrero-Roldán

12:15
12:30

P28. Simulation of Synchronous and Asynchronous Generator Models in Matlab for a Virtual Electrical Machines Laboratory
Patricia Otero Valladares

12:30
12:45

P33. Virtual laboratory for induction motor simulation
Esteban Chiguano, Luis Hidalgo, Patricia Otero and Nelson Granda

12:45
13:00

P46. Homogeneity of engineering courses from an assignment management model in virtual learning environments
Alicia Cedeño-Tello and Joe Llerena-Izquierdo

ENGINEERING EDUCATION

HEALTH

AUDITORIUM (1st floor, Building D)

Keynote Speech: "A Voice Assistant to examine cognitive impairment using Azure Cognitive Services"
PhD. Carmen Moret Tatay, Catholic University of Valencia, San Vicente Martir, Spain

- P1. Evaluation of Biomechanical Conditions in Infants from 20 to 48 Months of Age in Gait
Yessenia Armas and Victor Hugo Cabrera
- P3. Comparison of biomechanical conditions in persons with overweight between 18 and 35 years old to obtain characteristic curves with the use of inertial sensors
Gerson Moreta, Diego Ortega and Victor Cabrera
- P16. Inertial sensors based stabilometric analysis for postural control in elderly people: Systematic review
Byron Zapata Chancusig, José Bucheli Naranjo and Fabian Narváez Espinoza
- P43. wPLI for Pre-training desynchronization Identification
Frank Zapata, Óscar Gómez, Andrés Álvarez and César Castellanos

R E C E S S

13:00
14:00

Keynote Speech: "Terahertz time-domain spectroscopy for characterizing materials in agribusiness"
PhD. Jimy Oblitas Cruz
Universidad Nacional de Cajamarca, Peru

14:00
15:00

P11. Fog collectors systems with IoT sensors in the Andes and the coast of Ecuador Southamerica and data processing
David Carrera, Felipe Carrera, José Luis Carrera and Lucía Vernaza

15:00
15:15

P36. An IoT device for determine the level of chlorine present in water based on electrochemical reactions
Marcelo Flores, Angelica Zea Cobos, Miguel Mayancela and Juan V. Capella

15:15
15:30

P39. Quantification of contaminants through infrared spectrometry in naphtha engine oils
Diego Vinicio Díaz Sinche, Jairo Darío Castillo Calderón and Rubén Darío Carrión Jaura

15:45
16:00

P45. Measurement of free residual chlorine in drinking water using clean technologies "oxidation and reduction potential (ORP)" as an alternative technique to the use of chemical reagents
Angélica Zea, Gabriela Ordoñez, Borys Quiroz and Marcelo Flores

INDUSTRY

Keynote Speech: "Multimodal 3d medical imaging"
PhD. Mauren Abreu de Souza
Pontifical Catholic University of Paraná, Brazil

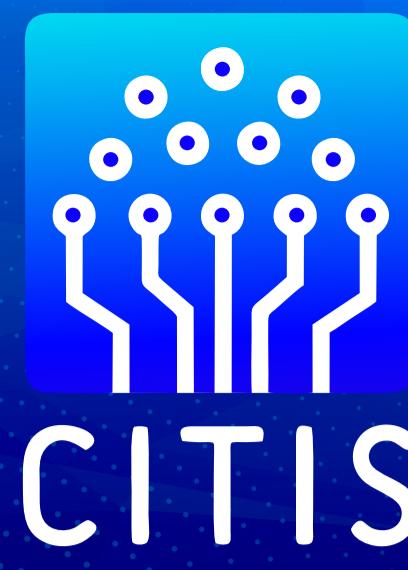
- P4. Nonlinear Identification and Position Control of a Pneumatic System.
Victor Huilcapí, Ricardo Cajo, Jorge Orellana and Alex Cascante
- P5. After-sales and customer loyalty strategies for fixed Internet through the implementation of virtual assistance in the Ecuadorian context
Bruno Alcivar-Cruz and Joe Llerena-Izquierdo
- P7. Synthesis of nanometric and submicron particles of titanium dioxide (TiO₂) for the formation of nanostructured films
Daysi Baño Morales, Nelly Rosas- Laverde and Cristian Santacruz
- P9. Classification of mechanical failures in Provoked Ignition Engine by means of ANN and SVM
Rafael Wilmer Contreras Urgiles, Jorge Chiluisa, Esteban Rocano and José Maldonado

Keynote Speech: "High-impact scientific journals search for the publication of scientific articles in engineering"
PhD. Alejandro Valencia Arias,
Instituto Tecnológico Metropolitano, Colombia
AUDITORIUM

16:00
17:00

Guayaquilean evening/Tarde Guayaquileña
Recreational and cultural activity in the Patio of the Coworking Space, 4th floor, Building D.

17:00
20:00



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Reception

Jun 24th
Friday

08:30
13:00

Registration to the Conference
Registration Bureau
(Building D, Hall next to the Aula Magna)

ROOM FOR MULTIPLE PURPOSES (1st floor, Building D)

09:00
10:00

Keynote Speech: "Fuzzy computing and decision-making in real-world applications"
Prof. Dr. Sunny Joseph Kalayathankal Jyothi Engineering College, India

10:00
10:15

P17. Hybrid iiot & arduino iot cloud platform for continuous industrial process analysis
Javier Molina, María Yugcha and William Montalvo

10:15
10:30

P22. Discrete Loop Filter for Time- Synchronization: A approach from design to real implementation with RTL-SDR system
Diego Lamadrid, Juan Inga and Andrés Ortega

10:30
10:45

P23. Simulation by CFD of the Internal Baffles of the Condenser in a 300 L Heat Pump for Residential Water Heating with Refrigerants R717 and R744
Fernando Toapanta-Ramos, Stalyn Oleas, Kevin Páez and William Quiquiazez

11:00
11:15

P24. Leveraging Modal Analysis for Multi-Scenario Power System
Gabriel Alfredo Rodríguez Proaño and José Antonio Oscullo Lala

P25. Development of a system based on artificial vision to determine the length of billets in the cutting process in steel mills
Richard Xavier Sánchez Pozo and Víctor David Larco Torres

INDUSTRY

ENVIRONMENT

AUDITORIUM (1st floor, Building D)

11:15
11:30

R E C E S S

11:30
11:45

P12. Estimation of zones of greatest accidents on the Cuenca-Loja road according to the driving maneuvers.
Néstor Rivera, Paúl Molina and Juan Molina

11:45
12:00

P19. Efficiency increase of supercharged engines.
Paúl Molina, Juan Molina, Andrea Bermeo and Gina Novillo

12:00
12:15

P30. FOC Control design of VSI-SiC power converter for an electric traction system.
David Galindo and Efrén Fernández Palomeque

12:15
12:30

P31. A Toyota Corolla Hybrid GUI based on Simulink and LabVIEW for live- data acquisition and monitoring system.
Angel López, Diego Rojas and Efrén Fernández

12:30
12:45

P34. Multi-agent algorithm for the generation of the route matrix of the $y=ax$ linear system used in the estimation of the origin-destination matrix.
Patricia Zapata, Francisco Castro and José Luis Aguayo

12:45
13:00

P48. Public Lighting System Management Adapted to Remote Management: Case Study.
Oscar Álvarez Leslie Mendoza and Jorge Rojas

MOBILITY

INFO TELECOM

13:00
14:00

R E C E S S

Keynote Speech: "Robotic neuro-rehabilitation"
PhD. Teodiano Freire Bastos,
Universidade Federal do Espírito Santo, Brazil

AUDITORIUM (1st floor, Building D)

14:00
15:00

Closing Ceremony
Recognition to the best papers of the conference