

20 October 2023
Spain Time: GMT+1



an Iberoamerican Conference

Madrid
Spain

ARTIIS

09:00 - 09:20 Open session



Keynote Simone Belli
Novel perspectives in measuring machine intelligence



Parallel session 1

(Host: Teresa Guarda)



Parallel session 2

(Host: Jose Maria Diaz-Nafria)



Parallel session 3

(Host: Filipe Portela)

9:20 - 10:50	S1.1 - Sustainability	(Chair Modestos Stavrakis)	9:20 - 10:50	S2.1 - Data Intelligence	Chair Antonio J. Muñoz Montoro)	9:20 - 10:50	S3.1 - Ethics, Security, Privacy, and Interdisciplinary Information Studies	(Chair Tiago Pereira)
8536	Internet of Things in Business & Management: Current Trends, Opportunities & Future Scope Swati Sharma		551	Leveraging Large Language Models for Literature Review Tasks - A Case Study Using ChatGPT Robert Zimmermann, Marina Staab, Mehran Nasser and Patrick Brandtner		6780	Data-Driven Intelligence can Revolutionize Today's Cybersecurity World: A Position Paper Iqbal Sarker, Helge Janicke, Leandros Maglaras and Seyit Camtepe	
1221	Flexibility and Productivity in IoT Programming: A Case Study with mruby Kazuaki Tanaka, Sota Ogura, Krishnamoorthy, Ko-Ichiro Sugiyama and Miyu Kawahara		3227	Steels Classification Based on Micrographic morphological and Texture Features Using Decision Tree Algorithm Yamina Boutiche and Naima Ouali		7258	The relation between Mayer's multimedia theory and Berthoz's simplicity paradigm for inclusive education Alessio Di Paolo	
6641	Methods of allocation of urban centers Alexander Katyns, Anna Pavlova, Inna Arseneva, Ekaterina Shapovalenko and Sergey Mityagin		3338	Amazlem: the first Amazigh lemmatizer Rkia Bani, Samir Amri, Lahbib Zenkouar and Zouhair Guennoun		7799	Developing a Data Privacy Framework for Higher Education Institutions in South Africa: Analysis and Recommendations Krithica Latchman, Hanifa Abdullah and Adele Da Veiga	
5736	Digital Master Plan as a tool for generating territory development requirements Tatiana Churiakova, Vasili Starikov, Vladislava Sudakova, Aleksandr Morozov and Sergey Mityagin		4218	The method of contextual selection of the functions of cultural heritage objects based on the urban environment network model Andrei Drozhzhin, Igor Lavrov, Egor Loktev and Sergey Mityagin		8538	DrugChecker : Blockchain-based counterfeit drug detection system Amia Zaimia and Hajlaoui Jalel Eddine	
8445	Technology and the generation gap: How e-expertise present in youths positively affects online purchases José Magano, Manuel Au-Yong-Oliveira and José Pedro Teixeira Fernandes		4394	Urban lawns state identification method based on computer vision Roman Bezaev, Sergey Mityagin, Aleksey Sokol, Daniil Zhemborovskii, Alexander Kryukovskiy and Irina Melnicuk		7276	Ethical Implications of Transparency and Explainability of Artificial Intelligence for Managing Value-Added Tax (VAT) in Corporation Zornitsa Yordanova	
7498	Impact of Biometric Sensors on Physical Activity Teresa Guarda, Datzania Villao and Maria Fernanda Augusto		3214	Deep Learning model for the recognition of its environment of an intelligent system Jesús Ocaña, Guillermo Miñan, Luis Chauca, Víctor Arcajima and Luis Leiva Cilio		4285	Maturity Model of Response Protocols to Ransomware Scenarios in the Mining Sector Juan Pablo Mansilla Lopez, Saul Vargas Aznar and Brignith Gomez	

10:50 - 11:00 Virtual Coffee Break

10:50 - 11:00 Virtual Coffee Break

10:50 - 11:00 Virtual Coffee Break



Springer

20 October 2023
Spain Time: GMT+1



an Iberoamerican Conference
Madrid
Spain

ARTIIS



Parallel session 1

(Host: Teresa Guarda)

11:00 - 13:00 S1.2 - Computing Solutions and Gamification (Chair Gonzalo Aguila)

4666 Enhancing the museum experience: a gamified approach of an interactive installation in the Industrial Museum of Hermopolis
Athina Bosta and Modestos Stavrakis

7260 A serious game about apps, data-sharing and deceptive design
Ingvar Tjostheim

4713 Gamification in Recommendation Systems A Systematic Analysis
Agyeman Murad Taqi, Munther Qadous, Mutaz Salah and Fezile Ozdamli

9175 The foggy frontier: exploring the fog and edge computing for online games
João Paulo de Sousa, Rogério Tavares and Jesús Torres Jorge

3733 Impact of Mobile Technology on Learning and Library Policies
Irena Peteva, Stoyan Denchev and Elisaveta Tsvetkova

1507 Software Solution to Automatize Evaluation and Accreditation Process in Higher Education
Hristina Kostadinova, George Totkov and Stoyan Atanasov

4076 aIBERTUM: A Portuguese Search Engine for Scientific and Academic Language
Sílvia Araújo, Micaela Aguiar and José Monteiro

7290 E-Learning for the empowerment of high school girl students
Manuel Delzo-Zurita, Diego Pickman-Montoya, Daniel Burga and David Mauricio



Parallel session 2

(Host: Jose Maria Diaz-Nafria)

11:00 - 13:00 S2.2 - Computing Solutions (Chair Fernando Rodriguez Varela)

4205 A Novel Optimization Algorithm for Smart Video Surveillance System and Change Object Detection
Muhammad Fahad and Shafaq Siddiqi

9319 Reliable Reputation-based Event Detection in V2V Networks
Vincenzo Agate, Alessandra De Paola, Giuseppe Lo Re and Antonio Virga

7522 Digitizing musical skills in elementary school with the use of Instagram
Almudena Alvarez-Castro and Jorge Rafael Gonzalez Teodoro

1277 Software quality in the IOT in Health sector and Commerce sector
Karina Ojo-González, Belen Bonilla-Morales and Miguel Vargas-Lombardo

3098 Mobile app for the payment of electronic tickets using NFC technology in the public transport system in Lima Metropolitana
Fabricio Dávila, Guillermo Gonzales and Juan-Pablo Mansilla

8422 Control of type 1 and 2 diabetes in middle-aged individuals at private clinics: A technological solution based on wearables and IoT
Diego Zapata, Sofia Bravo and Juan-Pablo Mansilla

1301 Implementation of a System for Measuring the Physical Performance of Football Players Based on Analytic Hierarchy Process Method (AHP)
José Luis Jinez-Tapia, Luis Gonzalo Santillan-Valdivezo, Carlos Ramiro Peñafiel-Ojeda, Jaime Puetate-Paredes and Paulina Valle-Oñate

4027 Adaptive Key Management-Based Privacy Preservation Protocol for Healthcare Data
Pankaj Khatiwada, Nishu Gupta, Bian Yang and Mohammad Derawi



Parallel session 3

(Host: Filipe Portela)

11:00 - 12:15 S3.2A - ISTIIS (Chair Filipe Portela)

1624 Coffee Silverskin: Unveiling a Versatile Agri-Food By-Product for Ethical Textile Coatings
Augusta Silva, Agata Nolasco and Carla Silva

5263 3D printing using natural fibers - an emerging technology in sustainable manufacturing: A review
Cristina Oliveira, Denise Carvalho, Isabel Moura, Bernardo Ribeiro and Flávio Ferreira

5472 aWaRe: Aiming for Water and Waste Reduction, Reuse and Recycling
Margarida Fernandes, Augusta Silva, Carla Silva, Pedro Silva, Ricardo Silva, Mário Silva, Filipe Rodrigues, Beatriz França, Helena Vilaça, Rosa Silva, José Morgado, Pedro Magalhães

7200 STVgoDigital: a Digital Product Passport solution
Miguel Sá, Catarina Guise, Filipa Costa, Paula Rodrigues, Carla Silva, João Oliveira, Ana Barros, Ricardo Silva, Toni Alves, Manuel Santos, António Miguel Rosado da Cruz, Marcelo Alves and Carla Joana Silva

8972 Automatic EPS Calculation Guided Genetic Algorithm and Incremental PCA Based DBSCAN of Extracted Acoustic Features for Anomalous Sound Detection
Xiao Tan, Siu Ming Yiu

12:15 - 13:00 S3.2B - ISIFE

(Chair Alessia Amelio)

2320 Social Media Intelligence (SOCMINT) as a tool for conducting intelligence activities
Antonio Teti

5448 Geometrical acoustics in cultural heritage conservation and promotion: digitalization of the acoustic characteristics
Sergio Montelpare, Mariano Pierantozzi, Samantha Di Loreto, Alessandro Ricciutelli and Marta Ferrara

5795 The Language of the Forensic Structural Engineering
Regina Finocchiaro, Samuele Biondi and Franco Bontempi

13:00 - 14:00 Lunch Virtual

13:00 - 14:00 Lunch Virtual

13:00 - 14:00 Lunch Virtual





Parallel session 1

(Host: Teresa Guarda)

14:00 - 16:00 S1.3 - Data Intelligence

(Chair Nishu Gupta)

5377 Optimising a Formulated Cost Model to Minimise Labour Cost of Computer Networking Infrastructure: A Systematic Review
Richard Nana Nketsiah, Richard C. Millham, Israel Eden Agbehadji, Emmanuel Freeman and Ayogeboh Epizitone

5941 Comparison of solution methods the maximal covering location problem of public spaces for teenagers in the urban environment
Maksim Natykin, Sergey Mityagin, Semen Budennyy and Nikita Zakharenko

8942 A Machine Learning Approach for the Simultaneous Prediction of Dynamic Modulus and Phase Angle of Asphalt Concrete Mixtures
Fabio Rondinella, Fabiola Daneluz, Bernhard Holko and Nicola Baldi

6814 Trends in Computer Networking Congestion Control: A Bibliometric Analysis
Richard Nana Nketsiah, Israel Eden Agbehadji, Richard C. Millham, Samuel A. Iwarere and Emmanuel Freeman

9881 Characteristics of Word-of-Mouth (WOM) by the Interaction Between Feedback Willingness and Incentivized WOM Willingness
Takumi Kato and Toshikuni Sato

6453 Domain-specific Sentiment Analysis of Tweets using Machine Learning Methods
Tshephisho Joseph Sefara and Mapitsi Rangata

9412 Blockchain and Robotic Process Automation Working Together
Teresa Guarda, Samuel Bustos, Manuela Cañizares Espada and Daniel Gracia Garallar

4811 A behavior-based fuzzy control system for mobile robot navigation: design and assessment
Juan Pablo Váscone, Mailyn Calderón-Díaz, Inesmar C. Briceño, Jenny M. Pantoja and Patricio J. Cruz



Parallel session 2

(Host: Jose Maria Diaz-Nafria)

14:00 - 16:00 S2.3 - ACMsDA

(Chair Carlos Balsa)

9029 A Simple Mathematical Model to Steering Oceanic Debris to a Targeted Region
Carlos Balsa, Victoria Otero-Espinar and Sílvio Gama

6201 Parametric Study of a Stochastic SEIR Model for a COVID-19 Post-Pandemic Scenario
Carlos Balsa, Everaldo Padua, Luan Pinto and José Rufino

4219 Impact of technology revolution on economic development over the past decade
Maria Ribeiro, Márcia Rogão, Isabel Lopes and António Fernandes

3500 Chaos Analysis and Machine Learning for Forecasting Climate Change in some countries of Latin America
Guido Tapia, Saba Infante, Isidro Amaro and Francisco Hidrobo

4283 Climate time series prediction by convex polygons and the Kalman Filter
Jose Soto, Saba Infante and Aracelis Hernandez

9727 Data Analysis for performance improvement of university students using IoT
Manuel Ayala-Chauvin, Patricio Lara-Alvarez and Ricardo Castro

7996 Language as a moderating factor in cyber-safety awareness among school learners in South Africa: Systematic Literature Review
Amukelani Lisa Nkuna and Elmarie Kritzinger

7109 Digital Platforms, digitization of community businesses in the province of Santa Elena - Ecuador
Linda Núñez, Ronaldo Castro and Linda Núñez, Ronaldo Castro and Jakson Rodrigues



Parallel session 3

(Host: Filipe Portela)

14:00 - 16:00 S3.3 - Computing Solutions

(Chair Manuela Cañizares)

1854 A Mathematica Function to Get a List of Random Inequalities and their Respective Solution Sets
Judith Jiménez-Vilchez, Robert Ipanaqué-Chero, Ricardo Velezmore-León and Marcela Velásquez-Fernández

3959 A Fleet Allocation with Analytic Network Process and Time Dependent Variables
Hector Borcoski, Alexis Olmedo-Navarro, Luis Amigo, Javiera Jofre, Gustavo Gatica and Jairo Coronado-Hernandez

4873 Object Projection from R4 to R3 in Bachelor's degree with GeoGebra
Judith K. Jiménez-Vilchez, Robert Ipanaqué-Chero, Ricardo Velezmore-León, Marcela Velásquez-Fernández, Rolando Ipanaqué-Silva and César Silva-More

1183 Systematic Review of Technological Methods to Assess Executive Functions
Carlos Ramos-Galarza, Patricia García-Cruz and Mónica Bolaños-Pasquel

8779 Scheme of the software engineering elements that are part of the development of eHealth-oriented models and frameworks
Sandra Gutierrez-Rios, Clifton Clunie and Miguel Vargas-Lombardo

7293 Intelligent system comparing clustering algorithms to recommend sales strategies
Gianella Arevalo-Huaman, Jose Vallejos-Huaman and Daniel Burga-Durango

2067 WS-YOLO: an agronomical and computer vision-based framework to detect drought stress in lettuce seedlings using IR imaging and YOLOv8
Sebastian Wolter-Salas, Paulo Canessa, Reinaldo Campos-Vargas, María Cecilia Opozo, Romina V. Sepulveda and Daniel Aguayo

16:00 - 16:15 Coffee Break Virtual

16:00 - 16:15 Coffee Break Virtual

16:00 - 16:15 Coffee Break Virtual





Parallel session 1

(Host: Teresa Guarda)

16:15 - 18:15 S1.4 - Ethics, Security, and Privacy (Chair Gustavo Gatica)

8691 Perception of psychological recommendations generated by neural networks by student youth (using ChatGPT as an example)
Anna Uglova, Irina Bogdanovskaya and Boris Nizomutdinov

6251 Evolution, Collaborations, and Impacts of Big Data Research in Ecuador: Bibliometric Analysis
Jorge Buele, Manuel Ayala-Chauvin and Fátima Avilés-Castillo

5218 Ethical and Legal Challenges of Holographic Communication Technologies
Natalia Giogiou, Niki Chatzipanagiotou and Alvin Jude

4137 Reflector Saturation in Amplified Reflection Denial of Service Attack Abusing CLDAP and Memcache Protocols
João Gondim and Robson Albuquerque

8124 Model for a Real Estate Property Title Management System using Blockchain
Daniel Burga-Durango, Leonardo Enriquez-Chusho and Antony Alcala-Otero

2934 One-Time Passwords: A Literary Review of Different Protocols and Their Applications
Luis Almeida, Brayan Fernández, Daliana Zambrano, Anthony Almachi, Hilton Pillajo and Sang Guun Yoo

3224 Social Engineering Shoulder Surfing Attacks (SSAs): A Literature Review. Lessons, challenges, and future directions
Bryan Zurita, Santiago Bosque, Walter Fuertes and Mayra Macas

6752 Technological solution to optimize outpatient waiting time for medical care between multiple private healthcare institutions – A Preliminary Research
Cesar Castro-Velasquez, Wendy Barrera-Barrera, Daniel Burga-Durango and Jimmy Armas-Aguirre



Parallel session 2

(Host: Jose Maria Diaz-Nafria)

16:15 - 18:15 S2.4 - ISHMC / IWE (Chair Jose Sergio Magdaleno Palencia)

109 Analysis of Marketing Campaigns Results Through Unsupervised Learning with Apriori Association Modeling
Ramón Loaiza Chávez and Bogart Yail Márquez Lobato

1834 Mobile application to identify non-perishable products using machine learning techniques
Javier Sotelo, Arnulfo Alanis and Bogart Yail

2525 Efficient Spike Detection with Singular Spectrum Analysis Filter
Ousmane Khouma, Mamadou Lamine Ndiaye and Idy Diop

3062 MangoFruitDDS: A Standard Mango Fruit Diseases Dataset made in Africa
Demba Faye, Idy Diop, Nalla Mbye, Doudou Dione and Marius Mintu Diedhiou

6490 Management System For Pregnancy Evolution Tracking
Jonathan Sanchez Luna, Arnulfo Alanis, Efrain Patiño, Bogart Yail

9439 Intelligent emotion prediction system for help in telemedicine therapies of children with ASD
Denisse Herrera, Arnulfo Alanis, Rosario Baltazar and Daniel Velazquez

5719 Method Hand-Driven used for features extraction in OCT B-Scan images processed
Fabricio Tipantocla, Oscar Gómez, Javier Cajas, German Castellanos and Carlos Rivera

9145 Empowering Low-Power Wide-Area Networks: Unlocking the Potential of Sigfox in Local Transmission
Manuel Montaño Blacio, Vladimir García Santas, Daniel Jaramillo Chamba, Washington Torres Guin and Luis Chuquimarca Jimenez



Parallel session 3

(Host: Filipe Portela)

16:15 - 18:15 S3.4 - Data Intelligence and Sustainability (Chair Luis Matos)

7527 Use of anomaly detection and object detection as basic support in the recognition of outlier data in images
Shendry Balmore Rosero Vásquez

6425 Technological solution in real time based on IoT devices to optimize soccer team training
Juan Pablo Mansilla Lopez, Rodrigo Francesco Castro Canta and Macuri Lumbe Hiro Andrés

7661 A Domain Specific Language proposal for internet of things oriented to Smart Agro
Darwin Alulema, Verónica Alulema and Mayerly Saenz

4241 Agile model for the gradual and short-term deployment of an Enterprise Architecture in the Financial Sector
Kevin Avalos-Varillas, Rafael Rivas-Carrillo and Daniel Burga-Durango

6293 Cooperation and Technological Capacity Development among Companies: Evidence from Ecuador
Gustavo Hermosa, Astrid Aguilar, Marianela Reina and Myriam Moreno

8173 Survey based analysis on processed food and organic consumption pattern in India
Kushi Jain, Jose Swaminathan and Dewar Rico

6928 Characterization and comparison of maximum isometric strength and vertical jump among novice runners, long distance runners, and ultramarathoners
Mailyn Calderón-Díaz, Ricardo Ulloa-Jiménez, Nicole Castro Laroze, Juan Pablo Váscone, Jairo R. Coronado-Hernandez, Mónica Patricia Acuña-Rodríguez and Samir F. Umaría Ibañez

18:20 Close session