21st International Conference on e-Society 2023
19th International Conference on Mobile Learning 2023

CONFERENCE PROGRAM

Saturday 11th, March 2023

08:30-19:05 Welcome Desk (closes for lunch – 13:00-14:10)
(Room: Eduardo Viana IV - floor 0)

09:40-10:00 Session O – Opening Session
Room: Eduardo Viana II
OPENING SESSION
Profs. Pedro Isaías and Inmaculada Arnedillo Sánchez

10:00-11:00 Session KL – Keynote Presentation
Room: Eduardo Viana II
“GREEN SHOOTS OF HOPE IN MOBILE LEARNING”
Professor Agnes Kukulska Hulme, Institute of Educational Technology (IET), The Open University, UK

11:00-11:30 Coffee Break

11:30-12:50 Session FSP 11.1
Socio-cultural context and implications of mLearning // Pedagogical approaches, models and theories for mLearning
Room: Eduardo Viana I
Chair: Agnes Kukulska Hulme
USING A MOBILE APP TO CREATE RELEVANT AND PARTICIPATORY MUSIC LEARNING SPACES (F036)
Heather J. S. Birch
REMOTE TEACHING DURING THE COVID-19 PANDEMIC: CHALLENGES AND POTENTIALITIES OF USING M-LEARNING IN LITERACY CLASSES IN BRAZIL (F081)
Emely Cristina da Silva Viana, Hélio José Santos Maia, Danielle Alves de Oliveira Tabosa, Daniel Alves da Silva, Fábio Lúcio Lopes Mendonça and Rafael Timóteo de Sousa Júnior
HOW TO CREATE MOBILE LEARNING TECHNOLOGIES: A DESIGN CASE OF AN ONLINE PBL COURSE (S027)
Meina Zhu and Ke Zhang

11:30-13:10 Session FSP 11.2
Big Data
Room: Eduardo Viana III
Chair: Zacharoula Andreopoulou
BD4NRG QUERY ENGINE – INTUITIVE, EFFICIENT AND FEDERATED QUERYING ON BIG DATA (F102)
Konstantinos Touloumis, Evangelos Karakolis, Panagiots Kapalis, Vangelis Marinakis and John Psarrakos
TWINPG: A DIGITAL TWIN ARCHITECTURE FOR OPTIMAL POWER-TO-GAS PLANNING (F107)
Sotiris Pelekas, Elissaisos Sarmas, Anna Georgiadou, Evangelos Karakolis, Christos Ntanos, Nikos Dimitropoulos, Georgios Kompakakis and Haris Doukas
A DATA ACQUISITION FRAMEWORK FOR BUILDING ENERGY MANAGEMENT (S060)
Konstantinos Touloumis, Panagiots Kapalis, Elissaisos Sarmas, Stathis Stamatopoulos, Vangelis Marinakis and Haris Doukas
DAO IMPLEMENTATION CHALLENGES MODEL IN IRANIAN COMPANIES (S054)
Masoume Afrasteishad and Mohammad Ali Sarlak

13:00-14:10 Lunch Break
14:10-15:10 Session FP 11.3
Pedagogical approaches, models and theories for mLearning
Room: Eduardo Viana I
Chair: Shamsul Arrieya Ariffin

EDU-SOCIAL ALGORITHM: A METHODOLOGICAL MODEL FOR USING SMARTPHONES AND INSTAGRAM IN GENERATION ALPHA’S EDUCATION THROUGH A COMMUNITY OF VIRTUAL PRACTICES (F032)
Alessio Castiglione

GENERATION OF PRODUCTIVE EXPERIENCES IN THE DIGITAL ERA 4.0 (F052)
Sonia Armas-Arias, María Esther Alcántara Gutiérrez and Mireya Ramírez Martínez

14:10-15:10 Session FP 11.4
Digital Transformation // Other
Room: Eduardo Viana III
Chair: Jun Iio

THE I-ENERGY REFERENCE ARCHITECTURE FOR THE PROVISION OF NEXT GENERATION ENERGY SERVICES THROUGH ARTIFICIAL INTELLIGENCE (F124)
Evangelos Karakolis, Sotiris Pelekis, Spiros Mouzakitis, Georgios Kormpakis, Vasilis Michalakopoulos and John Psarras

SMART X: A DESCRIPTION FOR SMART ENVIRONMENTS (F208)
Richard Dubels

15:15-16:15 Session KL2 – Keynote Presentation
Room: Eduardo Viana II

“HEY SIRI, GOOGLE! CAN YOU HELP ME? A QUALITATIVE CASE STUDY OF SMARTPHONES AI FUNCTIONS IN SMEs”
Professor Jyoti Choudrie, University of Hertfordshire, Hertfordshire Business School, UK

16:15-16:45 Coffee Break

16:45-18:45 Session FP 11.5
Technology and Society
Room: Eduardo Viana I
Chair: Chinasa Odo

AR-BASED LEARNING RESOURCE: A DIFFERENT WAY TO LEARN DATA-STRUCTURES (F084)
Lázaro Vinicius de Oliveira Lima, Luis Gonzaga Magalhaes, Pedro Rangel Henriques and Alexandre Cardoso

A TECHNOLOGY ACCEPTANCE MODEL ANALYSIS OF METAVERSE TECHNOLOGY IN EDUCATION AND BEHAVIOURAL INTENTION TO USE IT AMONG UNIVERSITY STUDENTS. A COMPARATIVE ANALYSIS OF STUDENTS’ BEHAVIOUR IN THE NETHERLANDS AND GREECE (F040)
Nikolaos Misirlis and Yannis Nikolaidis

USER-ADAPTIVE NAVIGATION FOR ELDERLY PEDESTRIANS BASED ON PREFERENCE INFORMATION (F139)
Hiroshi Furakawa and Ryotaro Mine

MULTIDIMENSIONAL DI4CPS ONTOLOGY (F110)
Damien Nicolas, Christophe Felux and Djamel Khadraoui

16:45-18:45 Session FDP 11.6
Digital Transformation
Room: Eduardo Viana III
Chair: Noorminshah A. Iahad

ATTITUDES OF LIBRARIANS TOWARDS EMERGING TECHNOLOGIES – EFFECTS OF A MULTILINEAR SCENARIO (F037)
Elke Brucker-Kling, Samuel Keller and Thomas Keller

INVESTIGATING STAFF INFORMATION SECURITY POLICY COMPLIANCE IN ELECTRONIC IDENTITY SYSTEMS – THE GHANAIAN NATIONAL IDENTITY SYSTEM (F191)
Salim Awudu and Sotirios Terzis

COMPARING BARRIERS TO DIGITAL TRANSFORMATION BETWEEN SMALL AND MEDIUM-SIZED AND LARGE ENTERPRISES (F209)
Philip Johannesson, John Sinha, Sven Packmohr and Henning Brink

TOWARDS SUCCESSFUL DIGITAL TRANSFORMATION FRAMEWORK (D131)
Resego Morakanyane
Sunday 12th, March 2023

08:30-15:30 Welcome Desk (closes for lunch – 13:00-14:15)
(Room: Eduardo Viana IV - floor 0)

09:00-11:00 Session FRP 12.1
Tools, technologies and platforms for mLearning // Enabling mLearning technologies, applications and uses
Room: Eduardo Viana I
Chair: Orly Calderon

- **MATHEMATICAL MOBILE APPS VIA RURAL CASTING (F045)**

- **PRACTICE THROUGH PLAY USING MOBILE TECHNOLOGY (F092)**
  - Agnes D. Garciorno, Debbie Marie B. Verzosa, Ma. Louise Antonette N. De Las Peñas, Maria Alva Q. Aberin, Juan Carlo F. Mallari, Jumela F. Sarmiento and Mark Anthony C. Tolentino

- **WEB VIEWERS FOR EDUCATIONAL VR CONTENTS (F104)**
  - Yoshihiro Okada and Kanami Oki

- **USABILITY EVALUATION OF MOBILE INTERFACES FOR MATH FORMULA ENTRY (R107)**
  - Yasuyuki Nakamura

- **PROMOTING STUDENTS’ CRITICAL THINKING & PROBLEM SOLVING SKILLS VIA MOBILE-SUPPORTED LABS (F095)**
  - Manolis Kouslougloglou, Eleni Petridou, Anastasios Molohidis and Euripides Hatzikraniotis

08:55-11:00 Session FSP 12.2
Technology and Society // Digital Transformation
Room: Eduardo Viana III
Chair: Salim Awudu

- **MOTION SIMULATION AND VIRTUAL REALITY IN V-COMMERCE - HOW THE USE OF MOTION SIMULATION AFFECTS CUSTOMER VALUE, PURCHASE INTENTION, AND TRUST IN AUTONOMOUS VEHICLES (F100)**
  - Roger Seiler, Riccardo Fiore and Stefan Koruna

- **DISRUPTIVE CHALLENGES OF REMOTE WORK IN THE CONTEXT OF E-SOCIETY (S127)**
  - Katarina Silver Makar, Ivana Ogrizek Biskupić and Mihaela Banek Zorica

- **CITIZEN SCIENCE AS A SERVICE? A REVIEW OF MULTI-PROJECT CITIZEN SCIENCE PLATFORMS (F085)**
  - Carolin Stein, Alicia Wittmer, Jonas Fegert and Christof Weinhardt

- **DETERMINATION OF COGNITIVE CRITERIA TO ENHANCE VISUALISATION DURING DESIGN REVIEW SESSION (F214)**
  - Adlin Shaflina Azizy, Kherun Nita Ali, Noorznasbah A.Iahd and Chan Wei Siang

- **THE USE OF MOBILE LEARNING IN THE PROFESSIONAL MASTER’S DEGREE IN CYBERSECURITY (F146)**
  - Tayná Gabriela Araújo Albuquerque, Daniel Alves da Silva, Valéria Cristina Soares Alves, Danielle Alves de Oliveira Tabosa, Fábio Lácio Lopes de Mendonça and Rafael Timóteo de Sousa Júnior

08:50-09:55 Session FSRP 12.3
eLearning// E-Citizenship and Inclusion
Room: Almada Negreiros I
Chair: Sabina Lissitsa

- **CITIZEN IDENTIFICATION IN CONTEXT OF ELECTRONIC GOVERNANCE – THE CASE OF MOZAMBIQUE (F042)**
  - Paulo Maculau and Luís Amaral

- **CROSS-CULTURAL EDUCATION IN ASIA USING ONLINE COMMUNICATION TOOLS AND THE DIALOGBOOK (S045)**
  - Jan Ito, Shigenori Wakabayashi, Junji Sakurai and Taya Nakagawa

- **ITERATIVE DEVELOPMENT OF AN INCLUSIVE LEARNING ENVIRONMENT FOR HUMAN ANATOMY STUDIES: FROM ONLINE ENGAGEMENT WITH 3D MODELS TO VIRTUAL REALITY (R069)**
  - Martine Pellerin and David Vergote
10:00-11:00 Posters Session
Room: Almada Negreiros I
Chair: Inmaculada Arnedillo Sánchez

MOBILE LEARNING AND SIMULATION FOR THE DEVELOPMENT OF HANDS-ON CLINICAL SKILLS (ML_P075)
Krystina Clarke, Andrei Torres, Maria J. P. Peixoto, Bill Kapralos and Adam Dubrowski

EVALUATION OF LINGUISTIC AGGRESSION IN CYBERBULLYING AGAINST WOMEN ON SOCIAL MEDIA IN PUBLIC SECTOR UNIVERSITIES OF PAKISTAN (ES_P078)
Syeda Iraa Batool and Mahmood Shah

ONLINE APP FOR THE EVALUATION OF CLIMATE CHANGE IMPACT IN URBAN GREEN AREAS (ES_P141)
Zacharoula Andreopoulou, Dimitra Papagiannopoulou and Thekla Tsitsoni

E-LEARNING ACTIVITIES DURING PANDEMIC: PROJECT LIFE CLIVUT (ES_P144)
Thekla Tsitsoni, Dimitra Papagiannopoulou and Zacharoula Andreopoulou

COLLABORATIVE LEARNING IN STEAM TEACHING FOR STUDENTS IN THE CENTRAL AMAZON (ES_P148)
Juliana Gisele Corrêa Rodrigues, Adan Sady de Medeiros Silva and Jucimar Maia da Silva Junior

ONLINE COURSE ON BASIC CONCEPTS OF ROBOTICS AND INDUSTRY 4.0 FOR STUDENTS FROM PUBLIC SCHOOLS IN MANAUS - AMAZONAS (ES_P171)
João Victor Pessoa da Silva and Jucimar Maia da Silva Junior

THE CREATION OF VIDEO CONTENT FOR TEACHING AND LEARNING ABOUT STEAM (ES_P183)
Vinicius Schramm Caldas and Adan Sady de Medeiros Silva

THE PROCESS OF CONTENT PROSPECTION IN STEAM AREAS AIMED AT HIGH SCHOOL STUDENTS (ES_P190)
Beatric Freitas de Souza and Jucimar Maia da Silva Junior

APPLYING STEAM EDUCATION FOR HIGH SCHOOL STUDENTS ON SOCIAL MEDIA THROUGH GEEK CONTENT (ES_P192)
Andreison Santos da Silva and Adan Sady de Medeiros Silva

11:00-11:30 Coffee Break

11:30-13:00 Session FP 12.4
Innovative mLearning approaches
Room: Eduardo Viana I
Chair: Maria Alva Aberin

VALUE OF A MOBILE GAME-BASED APP TOWARDS EDUCATION FOR SUSTAINABILITY (F029)
Rita Rodrigues, Lúcia Pombo, Margarida M. Marques, Sofia Ribeiro, João Ferreira-Santos and Julia Draghi

TRANSFORMER LANGUAGE MODEL-BASED MOBILE LEARNING SOLUTION FOR HIGHER EDUCATION (F090)
Silvia García-Méndez, Francisco de Arriba-Pérez and Francisco J. González-Castaño

RAISING STUDENTS’ AWARENESS ABOUT NATURE CONSERVATION: FROM THE PARK TO THE CITY (F101)
Rita Rodrigues, Lúcia Pombo and Margarida M. Marques

11:30-13:20 Session FSP 12.5
E-Democracy
Room: Eduardo Viana III
Chair: Jonas Fegert

DESIGN PRINCIPLES FOR PUBLIC DELIBERATION SYSTEMS (F048)
Georgia Rokkou, Vassilios Tsakanikas and Vassilios Triantafyllou

TOWARDS INCLUSIVE DIGITAL DEMOCRACY: A CONCEPTUAL FRAMEWORK FOR DIGITAL CITIZEN PARTICIPATION (F198)
Jonas Fegert

Sabina Lisitska and Svetlana Chuchashvili-Bolotin

CONCEPTUAL MODEL FOR EXAMINING THE CONTINUANCE USAGE INTENTION OF SMART GOVERNMENT SERVICES (S055)
Omar Hujran and Mutaz M. Al-Debei
11:30-13:15 Session FP 12.6  
Digital Literacy  
Room: Almada Negreiros I  
Chair: Darius Zumstein

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<tr>
<td>EDUCATIONAL, SOCIAL AND ETHICAL ASPECTS OF AI IN THE OPINION OF IT AND PEDAGOGY STUDENTS - A CASE STUDY (F207)</td>
<td>Room: Almada Negreiros I</td>
<td>Darius Zumstein</td>
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<td>FACT CHECKERS IN DEMOCRACY: PERCEPTION OF INDEPENDENT FACT CHECKERS AND NEWS ORGANIZATIONS (F089)</td>
<td>Room: Almada Negreiros I</td>
<td>Darius Zumstein</td>
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<td>REIMAGINING TEACHING AND LEARNING FOR A NEW ERA: HYBRIDIZATION OF THE TEACHING AND LEARNING MODALITIES IN THE K-12 EDUCATIONAL CONTEXT (R087)</td>
<td>Room: Almada Negreiros I</td>
<td>Darius Zumstein</td>
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13:00-14:15 Lunch Break

14:15-14:55 Session SP 12.7  
eHealth  
Room: Almada Negreiros I  
Chair: Omar Hujran

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<tr>
<td>CYBERPHARMACY: A FUTURE PLATFORM OF SERIOUS GAMES FOR HEALTHCARE (S147)</td>
<td>Room: Almada Negreiros I</td>
<td>Omar Hujran</td>
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<td>DICOM METADATA - A USEFUL RESOURCE FOR BIG DATA ANALYTICS (S025)</td>
<td>Room: Almada Negreiros I</td>
<td>Omar Hujran</td>
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14:15-15:15 Seminar  
Room: Eduardo Viana III

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<td>THE EDITORS SESSIONS</td>
<td>Room: Eduardo Viana III</td>
<td>Mahmood Shah</td>
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15:30 – Conference Tour and Dinner

**Monday 13th, March 2023**

08:15-13:15 Welcome Desk  
(Room: Eduardo Viana IV - floor 0)

09:15-11:00 Session FP 13.1  
User Studies in mLearning  
Room: Eduardo Viana I  
Chair: Silvia García-Méndez

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<td>RESEARCH ON THE ATTITUDES OF HIGH SCHOOL STUDENTS FOR THE APPLICATION OF ARTIFICIAL INTELLIGENCE IN EDUCATION (F020)</td>
<td>Room: Eduardo Viana I</td>
<td>Silvia García-Méndez</td>
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<td>FRAMEWORK OF BEST PRACTICES FOR UNIVERSITY STUDENTS' MOBILE LEARNING IN STEM SUBJECTS (F061)</td>
<td>Room: Eduardo Viana I</td>
<td>Silvia García-Méndez</td>
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<td>TECHNOLOGY IN THE PERCEPTION OF ENGLISH TEACHERS IN SOUTHERN BRAZIL SCHOOLS (F108)</td>
<td>Room: Eduardo Viana I</td>
<td>Silvia García-Méndez</td>
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<td>STUDY OF THE CORRECTIVE GRAMMATICAL TREATMENT OF ENGLISH SUPPORTED BY MOBILE APPLICATIONS (F058)</td>
<td>Room: Eduardo Viana I</td>
<td>Silvia García-Méndez</td>
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08:30-11:00 Session FP 13.2  
eBusiness / eCommerce  
Room: Eduardo Viana III  
Chair: Shubhamoy Dey

| TECHNOLOGY READINESS OF INSURANCE SERVICES: A CASE STUDY OF NEPAL (F122)  
| Sushant Subedi, Aayush Dip Giri, Saugat Aadhikari and Sushil Shrestha  
| AUGMENTED REALITY IN FASHION E-COMMERCE (F068)  
| Lisa Hplet and Darius Zamstein  
| TRANSPARENCY IN INFORMATION MARKETS (F150)  
| Daghe Ruit Raban and Efrat Marmur  
| AN EMPIRICAL STUDY OF CUSTOMER SATISFACTION AND LOYALTY IN B2C E-COMMERCE AMONG INDIAN YOUTHS (F103)  
| Bussu Srikar Reddy, Sumanth Cholleti, Sriram Kalpathy Visswanathan and Asish Oommen Mathew  
| EXAMINING CUSTOMER SATISFACTION AND BRAND LOYALTY OF GENERATION Z CUSTOMERS IN OTT MEDIA SERVICES (F104)  
| Pratik Kumar and Asish Oommen Mathew |

11:00-11:30 Coffee Break

11:30-12:50 Session FSP 13.3  
Strategies and challenges for integrating mLearning in broader educational scenarios  
Room: Eduardo Viana I  
Chair: Heather J. S. Birch

| GES APP – SUPPORTING GLOBAL EMPLOYABILITY SKILLS FROM THE PERSPECTIVES OF STUDENTS, STAFF AND EMPLOYERS (F100)  
| Sobah Abbas Petersen, Maria Iqbal, Alan Williams and Gavin Baxter  
| PANDEMIC-DRIVEN MOBILITY IN HIGHER EDUCATION: THE GOOD, THE BAD AND THE USEFUL (F080)  
| Orly Calderon, Susan Penque, David Luhr, Caryn Nahum and Lauren Scardigno  
| ZOOM APPLICATION FOR ONLINE LANGUAGE LEARNING (S050)  
| Charito Ong and Grace Pimentel |

11:30-12:40 Session FSP 13.4  
Human Computer Interaction // Information Search and Retrieval  
Room: Eduardo Viana III  
Chair: Thekla Tsitsoni

| CROWDFUNDING SCIENTIFIC RESEARCH: A CASE STUDY BASED ON USER RESEARCH (F117)  
| Chinasa Odo, Stefano De Paoli, Paula Forbes and Andreea Oniga  
| EMOTIONAL EVALUATION OF MOVIE POSTERS (S046)  
| Takashi Hanagaki and Jun Iio  
| ROLE OF NAMED ENTITIES IN UNDERSTANDING SEMANTIC SIMILARITY OF ENGLISH TEXT (S195)  
| Sumit Kumar and Shubhamoy Dey |

13:05 Best Paper Awards Ceremony and Closing Session  
Room: Eduardo Viana II  
Profs. Pedro Isaías and Inmaculada Arnedillo Sánchez