

Program of the MCCSIS 2025

Multi Conference on Computer Science and Information Systems

Conference Sessions:

e-Learning and Digital Learning 2025

ICT, Society and Human Beings 2025

e-Health 2025

Sustainability, Technology and Education 2025

Game and Entertainment Technologies 2025

Interfaces and Human Computer Interaction 2025

Computer Graphics, Visualization, Computer Vision and Image Processing 2025

Connected Smart Cities 2025

Big Data Analytics, Data Mining and Computational Intelligence 2025

Digital Transformation and Innovation Management 2025

Tuesday, 22nd July 2025

16:00 – 18:00 Welcome Desk – Room: Eduardo Viana IV - only open for check-in and requests for information.

Wednesday, 23rd July 2025

08:30-19:05 Welcome Desk – Room: Eduardo Viana IV (closes for lunch 13:00 – 14:15)

09:45 – 10:00 Session O – Opening Session

Room: Eduardo Viana II + III

Profs. Piet Kommers and Pedro Isaias

10:00 – 11:00 Keynote Session

Room: Eduardo Viana II + III

A.I. FOR STUDENTS' METACOGNITIVE SKILLS AND CREATIVE THINKING

Prof. Dr. Piet Kommers, UNESCO Professor of Educational Technology, The Netherlands

11:00-11:30 Coffee Break

11:30-13:00 Session 23.1

Digital media studies // Other

Room: Eduardo Viana II + III

Chair: Zhiping Zheng

INFORMAL LEARNING AND AFFINITY SPACES: LESSONS LEARNED FROM THE ANALYSIS OF THE CURIOSITY, INTEREST, AND ENGAGEMENT CONSTRUCT OBSERVED IN PROJECT NOOA (ELDL – F191)

Juliana C. C. Monteiro, Carla Morais and Miguel Carvalhais

EXPLORING THE PERCEIVED EFFECTS AND PERCEPTIONS OF USING NO-CODE AI EDUCATIONAL TOOLS IN AI LITERACY COURSES FOR NON-IT MAJOR UNDERGRADUATE STUDENTS (ELDL – F123)

Hyunjin Cha

DESIGN OF A SYNTAX-ANALOGY-BASED LEARNING TOOL FOR ENJOYABLE HARMONIC EDUCATION USING NATURAL LANGUAGE STRUCTURES (ELDL – F169)

Yoshitsugu Kohjiba, Hinata Nakamura, Soma Arai and Takuro Shibayama

11:30-12:50 Session 23.2

Big Data Applications

Room: Eduardo Viana I

Chair: Piet Kommers

A FOCUSED APPROACH FOR SPEECH EMOTION RECOGNITION IN REAL-WORLD ENVIRONMENTS (BigDaCI – F076)

Giuseppe Lentini, Paolo Ranzi, Isabella Della Torre, Ismaela Avellino, Andrea Buccoliero and Antonio Colangelo

ANALYSIS OF THE CORRELATION BETWEEN MORTALITY RATES AND THE HEALTHCARE WORKFORCE IN SOUTH KOREA (BigDaCI – F031)

Chanyoo Kim and Emanuel Santos

A DESIGN OF ELDERLY CARE MONITORING SYSTEM USING MULTI-MODAL SENSORS (BigDaCI – S060)

Sumin Kim, Sangwon Nam, Jimin Seo, Seohee Cho and Junho Jeong

11:30-13:00 Session 23.3

Computer Vision

Room: Almada Negreiros I

Chair: Cherifa Boudia

INTELLIGENT FROTH VELOCITY ESTIMATION THROUGH COMPUTER VISION TECHNIQUES (CGVCVIP - F031)

Abdullatif Al-Najim, Razan Al-Zannan, Erich Marko Lucic Oliva, Abrar Al-Amoudi, Mustafa Al-Naser and Ayman Al-Mukahhil

DEVELOPMENT AND EVALUATION OF A LOW-COST STEREO AND MONO VISION-SYSTEM (CGVCVIP - F032)

Mahmoud Hussein and Bernard Durand

OCR-GUIDED TEXT REMOVAL IN TECHNICAL DRAWINGS (CGVCVIP - F053)

Richard Martin, Elke Hergenröther and Benjamin Meyer

13:00 – 14:15 Lunch Break

14:15 – 16:15 Session 23.4

e-Learning Pedagogical Strategies // Innovations in e-Assessment

Room: Eduardo Viana II

Chair: Mohammad Nehal Hasnine

ENHANCING GEOMETRIC CONSTRUCTIONS IN ELEMENTARY EDUCATION USING GEOGEBRA: A CONSTRUCTIVIST APPROACH (ELDL - F049)

Lilla Korenova, Angelika Schmid and Zuzana Gemrot

PEDAGOGICAL INTENTION AND LEARNER PERCEPTION OF TRANSVERSAL SKILLS (ELDL – F180)

Marc Beutner and Jan-Phillip Lüttke

RETHINKING EDUCATION: DESIGNING MINDS FOR INDUSTRY 5.0 (ELDL – F107)

Suzana Sampaio, Kathryn Cormican, Pablo Alvarez and Deirdre Green

EDUCATIONAL ASSESSMENT IN THE AGE OF AI: A NARRATIVE REVIEW ON DEFINITIONS

AND ETHICAL-LEGAL PRINCIPLES FOR TRUSTWORTHY AUTOMATED SYSTEMS (ELDL – F119)

Giannangelo Boccuzzi, Flavio Manganello and Alberto Nico

14:15-16:15 Session 23.5

eHealth Architectures // Healthcare Data Architecture Standards // Other

Room: Eduardo Viana III

Chair: Alexandra Dobre

SMART TEXTILES FOR HEALTH MONITORING IN INDUSTRIAL ENVIRONMENTS: A FRAMEWORK FOR WEARABLE SENSOR INTEGRATION (EH - F078)

Bruna Abreu Vilarinho, André Ferreira Costa Vieira, João Nunes-Pereira, João Miguel Nunes Parente, Ivan Miguel Pires and Fernando José Velez

DEVELOPMENT OF A DIGITAL TOOL FOR SHOWING TEST RESULTS FROM CERVICAL CANCER SCREENING (EH - F057)

Jiaxin Li, Ophelia Prillard, Sandra Klonteig and Volker Hoffmann

EVALUATING LARGE LANGUAGE MODEL PROMPTING STRATEGIES FOR EXTRACTING BEHAVIORAL CHARACTERISTICS OF VIOLENT OFFENDERS (EH – S080)

Jonah Treitler, Gabriella Danziger, Matthew Marshall, Mohammad Hassan, Alexander Lundberg and Lori Ann Post

A CONCEPT UTILITY FRAMEWORK FOR INCREMENTAL ONTOLOGY EXPANSION (EH – S030)

Naren Khatwani, Lijing Wang and James Geller

TOWARDS FORMALIZED STUDY PARAMETERS FOR MEDICAL RESEARCH (EH – S023)

Carolin Poschen, Britta Berens and Konstantin Knorr

14:20-15:10 Session 23.6
Greenness and Sustainability of Smart Cities
Room: Eduardo Viana I
Chair: Rabinarayan Mahapatra

MONITORING BEHAVIOURAL CHANGE IN TO-BE-CLIMATE-NEUTRAL SMART CITIES ADAPTING THE TRANSTHEORETICAL MODEL OF BEHAVIOUR CHANGE (TTM) (CSC - F025)
Rohit Mondal, Sabrina Bresciani and Francesca Rizzo
INTEGRATING LOCAL CLIMATE ZONES AND 3D URBAN DATA TO ANALYZE THE SPATIAL DISTRIBUTION OF POTTED GREENERY IN CHIAYI CITY, TAIWAN (CSC - S033)
Yu Cheng Chen and Jia Chen Zou

14:45-16:15 Tutorial
Room: Almada Negreiros I

DESIGN AND EVALUATION OF ECOMMERCE CATEGORICAL BROWSING (DTIM - T056)
Zhiping Zheng

15:15 – 16:15 Session 23.7
Life environment and ICT
Room: Eduardo Viana I
Chair: Asefeh Asemi

AI TO SUPPORT LEVELS OF DEEP LEARNING: A COGNITIVE LOAD THEORY AND ICAP PERSPECTIVE (ICT – S105)
Robert Zheng
A GENERIC PDCA BASED HOSPITAL QUALITY MANAGEMENT SYSTEM MODEL (ICT – S058)
Bassam Hussein, Shaza Soleiman, Mohamad Hajj-Hassan, Ahmad Kassas and Amin Haj-Ali
THE EFFECT OF ICT ON HUMAN FACTORS IN LEBANON: TRUST, SECURITY AND PRIVACY (ICT – S037)
Basima Issa

16:15-16:45 Coffee Break

16:45 – 19:05 Session 23.8
Learning Analytics // Developing e-Learning Pilots and Prototypes
Room: Eduardo Viana II
Chair: Edita Butrimè

UNDERSTANDING LEARNERS' PERCEPTIONS ON A GENERATIVE AI-ENABLE SYSTEM IN PERSONALIZED CONTEXTUAL VOCABULARY LEARNING (ELDL - F108)
Mohammad Nehal Hasnine, Mirai Yamada, Hiroshi Ueda and Kensuke Akao
INTEGRATING SLA AND GENAI IN A PRACTICE-ORIENTED INTRODUCTION TO INFORMATION SYSTEMS COURSE: A MIXED METHODS STUDY (ELDL - F182)
Cherifa Boudia, Amina Houari and Kamal Benhaoua
AN AI-ASSISTED WORKFLOW FOR MULTILINGUAL ACCESSIBLE VIDEO PRODUCTION: THE EDUNEXT CASE STUDY (ELDL – F197)
Alice Pierluigi, Marina Linacero Martín, Annamaria De Santis, Claudia Bellini and Tommaso Minerva
GEOMETRIC FIGURES IN STEREO BY CONICAL AXONOMETRIC PERSPECTIVE USING GEOGEBRA 2D SOFTWARE (ELDL - F030)
Karla Bastos Guedes, Ronaldo da Silva Tavares, José Geraldo Franco Méxas and Marcelle de Sá Guimarães
EXPLORING AI DIGITAL TEXTBOOK DESIGN FOR PERSONALIZED DIAGNOSTICS IN SPECIAL EDUCATION (ELDL – S039)
Seol-Hee Lee, Yedana Lee and Ga-Young Lee

16:45 – 18:15 Session 23.9
HCI and Design education
Room: Eduardo Viana III
Chair: Pedro Amado

PREDICTING THE VISUAL AESTHETIC DISTRIBUTION OF MOBILE GUIs USING DEEP LEARNING (IHCI - F031)
Adriano Luiz de Souza Lima and Christiane Gresse von Wangenheim
GENERATIVE ARTIFICIAL INTELLIGENCE IN 3D: EXPLORING AI CAPABILITIES IN 3D SCENE GENERATION (IHCI - F018)
Ihor Romanovych, Sam Frish, Dmytro Kaliuzhnyi and Mariia Bilova
EDUCATIONAL EFFECTS OF MATHEMATICS E-LEARNING WITH A STANDARDIZED MATH INPUT UI (IHCI - F039)
Tetsuo Fukui

16:45-18:45 Session 23.10

Digital Strategy and Leadership

Room: Eduardo Viana I

Chair: Sevgi Ozkan Yildirim

LITERATURE REVIEW ON APPLICATIONS OF ACTOR NETWORK THEORY IN DIGITAL PLATFORM RESEARCH (DTIM - F147)

Shu-Chun Liao and Tzu-Chuan Chou

BLOCKCHAIN-BASED CONTROL OF FINANCIAL CHECKS IN PALESTINE USING HYPERLEDGER FABRIC (DTIM – F134)

Suhail Odeh, Nadine Abuodeh, Saja Lahalih, Sara Sulibe, Mahmoud Obaid and Murad Alrajab

ARE ONLINE COMMUNICATIONS AN EFFECTIVE TOOL IN TOURISM DESTINATION MARKETING? (DTIM - S041)

Carmen-María Hervás-Cortina, Irene Gil-Saura and Maria-Eugenia Ruiz-Molina

MATCHING INTERORGANIZATIONAL SYSTEM OWNERSHIP AND DEPENDENCE TO MAXIMIZE FIRM PERFORMANCE (DTIM – S096)

Philippe Marchildon and Pierre Hadaya

BARRIERS TO AI PERSONALISATION IN BEAUTY SECTOR SMES IN DEVELOPING ECONOMIES (DTIM – S153)

YanJun Chen and Xinwen Zhang

16:45-18:15 Session 23.11

Game and Entertainment Technologies // Design issues // Other

Room: Almada Negreiros I

Chair: Wannisa Matcha

AI-GENERATED VIDEO IS THE NEXT LANGUAGE FOR GAME PROTOTYPING: FOCUSING ON OPEN AI'S SORA (GET – F025)

JaeJun Lee, Soyoun Eom and Joo-Eun Kang

USING SENTIMENT ANALYSIS TO UNCOVER PLAYER RESPONSE TO GAME UPDATES VIA SOCIAL MEDIA (GET - F055)

Niklas Böckmann and Neil Breña

INTERACTIVE SOUNDSCAPE INSTALLATION URBAN GREEN SYMPHONY 4.0 (GET - F057)

Xin Yan, Takuro Shibayama and Seiichiro Matsumura

Thursday, 24th July 2025

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

08:55-11:00 Session 24.1

ICT and effects on humans

Room: Eduardo Viana III

Chair: Bassam Hussein

THE APPLICATION AND CHALLENGES OF TECHNOLOGICAL INTERVENTION IN HOME REHABILITATION FOR STROKE PATIENTS (ICT - F044)

Ching-Yu Liao and Ju-Joan Wong

ERP/SAP ACCEPTANCE IN ORGANIZATIONS: A TAM-BASED MODEL GROUNDED IN SAP IS-U PRACTICES IN THE ENERGY SECTOR (ICT – F102)

Işinsu Yıldız and Sevgi Özkan Yıldırım

PROTECTION MOTIVATION THEORY (PMT) AS A DRIVING FORCE FOR CYBERSECURITY AWARENESS (ICT – F106)

Namosha Veerasamy and Thulani Mashiane

REFRAMING FOOD MARKETING THROUGH A SCIENCE AND TECHNOLOGY STUDIES LENS: BRAND DEVELOPMENT AND CONSUMER BEHAVIOR IN TAIWAN'S POTATO CHIP MARKET (ICT - S041)

Wen-Jui Tan and Ju-Joan Wong

SENSORY TRANSLATION AND FRICTION IN GENERATIVE ARTIFICIAL INTELLIGENCE AND MULTI-MODAL PLATFORMS (ICT - R067)

Eun-Sung Kim

09:00-11:00 Session 24.2

Higher and Further Education // Continuous Professional Development (CPD) for Educational and Training Staff

Room: Eduardo Viana II

Chair: Hiroshi Ueda

ADVANCING INTERNATIONAL ACCOUNTING EDUCATION WITH ARTIFICIAL INTELLIGENCE (ELDL – F115)

Marja-Liisa Tenhunen

DIGITAL TECHNOLOGIES AND HEALTHY LIFESTYLES: MOBILE APPLICATIONS FOR PHYSICAL ACTIVITY (ELDL - F052)

Lilla Korenova, Marian Merica, Tomas Barot, Lucia Hlatka and Katarina Zilkova

EXPLORATION ON THE LEARNING PROCESS: A COMPARATIVE STUDY OF HIGH AND LOW PRE-TEST PERFORMANCE (ELDL - F021)

Wannisa Matcha

GENERATIVE ARTIFICIAL INTELLIGENCE IN SCIENCE EDUCATION AND TEACHER TRAINING: DEVELOPMENT OF A DATA COLLECTION INSTRUMENT (ELDL – F_158)

Juliana C. C. Monteiro, Margarida M. Marques and Lúcia Pombo

10:10-11:00 Session 24.3

Digital Transformation and Innovation Management // Application Areas

Room: Eduardo Viana I

Chair: Shu-Chun Liao

DEVELOPING A MODEL FOR THE ACCEPTANCE OF PROJECT MANAGEMENT TOOLS IN ORGANIZATIONS (DTIM - F106)

Sevgi Özkan Yıldırım and Ezgi Erkaş

EXAMINING CAPABILITIES IN DIGITAL SERVITIZATION: A LITERATURE REVIEW (DTIM - S027)

Paulo A. Cauchick-Miguel, Brenda L. Rocha and Thayla T.S. Zomer

09:05-10:10 Session 24.4

Patients and Public Health

Room: Almada Negreiros I

Chair: John Kildea

FALL TRAJECTORIES IN OLDER ADULTS: PATTERNS, PREDICTORS, AND OUTCOMES FROM A 6-YEAR FOLLOW-UP STUDY (EH – F037)

Amadou M. Djiogomaye Ndiaye, Michel Harel, Laurent Billonnet and Achille Tchalla

QUANTIFYING THE IMPACT OF SOCIAL DETERMINANTS ON THE DEMAND FOR HEALTHCARE SERVICES (EH - S043)

Michael Renda, Fatima Yusuf, Rosemina Vohra, Soon Ae Chun and James Geller

TOWARDS AN EFFICIENT SELECTION OF KEY CHARACTERISTIC PARAMETERS FOR THE PREDICTION OF FALLS IN THE ELDERLY (EH- R036)

Amadou M. Djiogomaye Ndiaye, Michel Harel, Laurent Billonnet and Achille Tchalla

10:20-11:00 Session 24.5
Sustainability, Technology and Education
Room: Almada Negreiros I
Chair: Zhiping Zheng

RAIL TRAFFIC RESEARCH IN GERMANY: EVALUATION OF GUIDELINES, REGULATIONS AND DESIGN VALUES WITH RESPECT TO CLIMATE CHANGE (STE – S016)
Jens Lehnen, Michael Eble, Carina Herrmann and Frauke von den Driesch
IDENTIFICATION AND ANALYSIS OF DATA SOURCES ON THE IMPACT OF RIVER FLOODING ON TRANSPORT INFRASTRUCTURE IN GERMANY (STE – S041)
Michael Eble, Jens Lehnen, Frauke von den Driesch and Carina Herrmann

11:00-11:30 Coffee Break

11:30-12:50 Session 24.6
User studies and fieldwork // Eliciting User Requirements
Room: Eduardo Viana II
Chair: Adriano Luiz De Souza Lima

UNDERSTANDING OF VEHICLE INTENTION AND SAFETY PERCEPTION IN YOUNG AND OLDER PEDESTRIANS CROSSING IN FRONT OF TWO DRIVERLESS VEHICLES: IMPACT OF A BIMODAL EHMI (IHCI – F042)
Aisha Sahai, Nicolas Souliman and Natacha Métayer
ACCESSIBLE EXPLANATIONS FOR ACCESSIBLE AI: EXPLAINABLE AI METHODS TO SUPPORT EASY-TO-READ TEXT GENERATION – A RAPID REVIEW (IHCI - F045)
Susanne Dirks
DRAWING CLOSER: DESIGNING HAPTIC MIXED REALITY INTERFACES FOR INDIVIDUALS WITH INCOMPLETE LOCKED-IN SYNDROME TO ENHANCE EXPRESSION AND COMMUNICATION (IHCI- S046)
Pedro Amado, Eliana Penedos-Santiago, Bruno Giesteira, Andreia de Sousa, Cláudia Lima and Sílvia Simões

11:30-13:00 Session 24.7
Intelligent Medical Systems
Room: Eduardo Viana III
Chair: James Geller

YOUDEEN'S J STATISTIC IN CONSTRUCTING A DECISION TREE CLASSIFIER FOR MEDICAL DIAGNOSTIC REASONING (EH – F018)
Irosh Fernando
WEARABLE SENSORS FOR STRESS MONITORING IN MENISCUS INJURY REHABILITATION (EH - F046)
Catarina de Sá Baio Pires, Fernando José Velez, Paulo Jorge Coelho, António Oseas Pataca and Ivan Miguel Pires
MODELING VIOLENT DEATH RATES: AN EXPLAINABLE AI ANALYSIS OF THE ASSOCIATION BETWEEN SOCIAL AND HEALTHCARE SERVICES AND HOMICIDE, SUICIDE, AND SUBSTANCE CAUSED DEATH (EH- F068)
Qing Zeng-Treitler, Yijun Shao, Ryan Wu, Adnan Lakdawala, Alicia Jones, Megan Koch, Yingxuan Liu, Lori Post and Maryann Mason

11:30-12:55 Session 24.8
Social and cultural uses of/for Play
Room: Eduardo Viana I
Chair: Namosha Veerasamy

"CUZ SHE IS MY DAUGHTER": HOW PLAYERS NAVIGATE LUDO-NARRATIVE DISSONANCE (GET – R029)
Xuanyi Mao and Mengqi Li
BREAKING BARRIERS: GAMIFICATION IN RECRUITING TO OVERCOME COMMUNICATION CHALLENGES – PSYCHOLOGICAL, SOCIAL AND CULTURAL DIFFERENCES IN PERCEPTION AND PARTICIPATION (GET - S047)
Manuela Sachse and Jessica Melzer
THAT'S ANCIENT HISTORY: HERITAGE AND VIDEOGAMES IN A BLENDED INTENSIVE PROGRAMME (GET- S071)
Bárbara Barroso, Rita Costa, Thibaud Hulin, Jens Nilsson, Stefan Tidlund and Tanja Korhonen
GAMIFICATION AS AN ENABLER FOR TRANSFORMATION: A SCIENTIFIC REFLECTION ON THE INTEGRATION OF PLAYFUL ELEMENTS IN SKILLS DEVELOPMENT AND INNOVATION (GET- R049)
Manuela Sachse, Tim Neumann and Jessica Melzer
ACCEPTANCE OF GAMIFIED AND ESPORTS-BASED TRAINING FORMATS: A THEORETICAL APPROACH USING UTAUT AND DIFFUSION OF INNOVATIONS (GET- R060)
Manuela Sachse and Lisa Strauch

11:30-12:50 Session 24.9

Connected Smart Cities

Room: Almada Negreiros I

Chair: Özge Andıç Çakır

STANDARDIZATION OF SMART CITY SENSOR NETWORKS: USE-CASE-SPECIFICITY AND DATA FORMATS AS KEY ASPECTS (CSC – F024)

Johannes Sautter, Rebecca Kreuz, Frederic Schubert, Ekaterina Dobrokhotova, Andreas Helsper, Philipp Lämmel and Adrian Föhl

AGENTIC SMART CITY SIMULATOR FROM USER LOCALE DATA (CSC - F042)

Akash Sahoo and Rabi Mahapatra

IMPROVING CITIZEN PARTICIPATION IN SMART CITIES: A LEGAL PERSPECTIVE ON THE NEED OF ADAPTING PROCESSES AND THE ROLE OF EMERGING TECHNOLOGIES (CSC- S056)

José Miguel Lucas

13:00 – 14:15 Lunch Break

14:15-15:15 Session 24.10

Sustainability, Technology and Education

Room: Eduardo Viana II

Chair: Rita Costa

FEASIBILITY STUDY ON THE PROCESSING OF RECYCLED HDPE/PLA MIXED FILAMENT FOR FDM 3D PRINTING (STE – S026)

Peng-Ching Chiu, Jui-Hung Cheng and Chang-Zhe Lin

TRAINING SKILLS FOR SUSTAINABILITY: THE 3RPLAY METHODOLOGY (STE – S032)

Sara Nosari

CULTURAL HERITAGE SUSTAINABILITY IN THE DESTINATION BRANDING OF SRI LANKA AND THE MALDIVES (STE- S022)

Adriaan De Man

14:15-15:15 Posters Session

Room: Eduardo Viana III

Chair: Piet Kommers

PIL@B – INTERACTIVE LABORATORY PROGRAM (ELDL – P113)

Alice Melo Ribeiro, Jamila Santos Khalifa, Samara Pereira Brito and Anna Luiza Moreira Lana de Almeida

NAVIGATING DIGITAL TRANSFORMATION: THE ROLE OF COMPETENCY IDENTIFICATION IN TALENT MANAGEMENT STRATEGIES (ICT - P020)

Hamed Al-Abri

A NOVEL APPROACH TO DESIGNING PATIENT-CENTERED SERVICES FOR POSTPARTUM NURSING CENTERS: A SYSTEMS THEORY PERSPECTIVE (ICT - P026)

Li-Min Lin, Chih-Lung Hung, Te-Min Chang, Pei-Chen Huang, Yi-Cheng Chen and Jen-Her Wu

ENHANCING ADHD SCREENING WITH AN INTERPRETABLE MACHINE LEARNING AND ITEM RESPONSE THEORY FRAMEWORK (EH - P047)

Débora M. Miranda, Pedro Loures, Gisele L. Pappa, Alexandre. L. O. Serpa, Wagner Meira Jr and Marco A. Romano-Silva

EARLY STROKE DETECTION USING CONVOLUTIONAL NEURAL NETWORKS BASED ON LONGITUDINAL TEMPORAL ELECTRONIC HEALTH RECORDS (EH - P056)

Chia-Hui Chien, Ting Ting Ko, Xiaohong W. Gao, Yung-Chun Chang and Yu-Chuan Li

DECISION SUPPORT SYSTEMS IN E-HEALTH: INCORPORATION OF TELECONSULTATIONS INTO THE ASSISTANCE FLOW (EH – P064)

Alaneir De Fátima Dos Santos, Eliane Maria de Sena Silva, Mariana Abreu Caporali de Freitas, Rosângela Durso Perillo and Shirley Pereira de Almeida

IMPLEMENTATION OF TELEOPHTHALMOLOGY IN MINAS GERAIS - BRAZIL: EARLY DETECTION OF OCULAR COMPLICATIONS IN DIABETIC USERS IN PRIMARY HEALTH CARE (EH - P065)

Rosângela Durso Perillo, Mariana Abreu Caporali de Freitas, Johan Alejandro Vega Castañeda, Luana da Silva Jorge, Luiz Carlos Molinari-Gomes and Alaneir de Fátima dos Santos

STRATEGIC OPTIONS ON STANDARDS ISSUES FOR ACHIEVING BUSINESS GOALS (STE - P025)

Byounggho Jun

CONTACT: AN INSTALLATION GAME (IHCI - P020)

Andrew Hieronymi

SIMULATION FRAMEWORK FOR EVALUATING DRIVER MONITORING SYSTEMS USING FACS-BASED VIRTUAL DRIVERS (IHCI - P034)

Jonghwa Kim, Kyunglim Lee and Wonsang Lee

EEGVis - A VISUALIZATION PROJECT TO SIMPLIFY PSYCHOPHYSICAL USER EXPERIENCE ANALYSIS (CGVCVIP – P027)

Melanie Steiner and Dieter Meiller

CLASSIFICATION OF SCREENING AUDIOGRAM USING DEEP LEARNING (BigDaCI – P033)

How-Ran Guo, Chi-Ping Su and Shao-Wei Yang

14:15-15:05 Session 24.11

Data Mining Topics and Applications // Pattern Recognition

Room: Eduardo Viana I

Chair: Giuseppe Lentini

INVESTIGATING VISUAL VIDEO COMPONENTS IN THE CONTEXT OF HYPERSTIMULATION IN CHILDREN'S VIDEOS (BigDaCI – F029)

Binh Minh Tran and Emanuel Santos

COMPARING DEEP LEARNING MODELS USED FOR IMAGE CLASSIFICATION ON PATTERNS ON DRESSED CLOTHING (BigDaCI - S038)

Marian Sousan, Sofia Azam and Nic Herndon

15:30 – Conference Tour and Dinner

Friday, 25th July 2025

08:30-13:10 Welcome Desk – Room: Eduardo Viana IV

08:50-11:00 Session 25.1

e-Learning Curriculum Development Issues

Room: Eduardo Viana II

Chair: Andrea Molinari

PROBLEM SOLVING AND ARTIFICIAL INTELLIGENCE: A BLENDED INTENSIVE PROGRAMME EXPERIENCE (ELDL – F188)

Vittoria Bonanzinga

HYBRID LEARNING 2.0: DESIGNING SUSTAINABLE MODELS FOR POST-PANDEMIC HIGHER EDUCATION IN JORDAN (ELDL – F167)

Maha S. Yaseen

FORESTED: INTERACTIVE TOOL FOR COMPETENCY CENTERED CURRICULUM VISUALIZATION (ELDL – F102)

Sorana Cimpan, Romain Ferrer and Hinata Yokoyama

ENHANCING DIGITAL COMPETENCY IN PRE-SERVICE EARLY CHILDHOOD TEACHERS: A PROGRAM DEVELOPMENT STUDY (ELDL – S040)

Minkyung Suh and Wooyong Jeun

FROM THE PERSPECTIVE OF 3C-3I INTEGRATION: RESEARCH ON THE CHALLENGES AND TRANSFORMATION STRATEGIES OF DIGITAL TEACHING IN MIDDLE SCHOOLS (ELDL – S152)

Xixi Lu

08:50-11:00 Session 25.2

Image Processing // Other

Room: Eduardo Viana III

Chair: Susanne Dirks

EXPLAINABLE MODEL FOR FETAL PLANE CLASSIFICATION USING VISION TRANSFORMERS AND LAYERWISE RELEVANCE PROPAGATION (CGVCVIP - F023)

Sinchana S, Nisarga Kunder, Siri Gowri H and Shravani Hiremath

UNDERWATER IMAGE ENHANCEMENT USING TRANSFORMER-BASED GENERATIVE ADVERSARIAL NETWORKS (CGVCVIP - F058)

Kai-Hsun Chen and Jin-Jang Leou

MULTIRESOLUTION DWT-2D VERSUS LAPLACIAN PYRAMID FOR FACIAL RECOGNITION USING SFA SKIN DATABASE (CGVCVIP - F039)

Ouarda Soltani and Souad Benabdelkader

DETECTION OF DRIVER FATIGUE USING MOBILE DEVICE SENSORS AND ARTIFICIAL INTELLIGENCE ON-DEVICE (CGVCVIP - S037)

Gonçalo Almeida, António Monteiro and Bruno Correia

VISUALIZATION OF THE PROPAGATION OF ELECTROMAGNETIC WAVES, ENHANCING EDUCATION AND SCIENCE COMMUNICATION (CGVCVIP – S063)

Mark Ferreira, Viktor Kretschmar, Stefan Valentin, Benjamin Meyer and Elke Hergenröther

09:30-11:00 Session 25.3

Life environment and ICT // Other

Room: Eduardo Viana I

Chair: Basima Issa

DEVELOPMENT OF PUBLIC WARNING SYSTEMS (ICT – F097)

Øyvind Heimset Larsen, Anna Maria Urbaniak-Brekke and Ivar Petter Grøtte

BEHAVIORAL FINANCE: A RECOMMENDER SYSTEM FOR PERSONALIZED INVESTMENT STRATEGIES BASED ON SURVEY DATA (ICT – F108)

Asefeh Asemi and Mahdi Houshang

THE CHARACTERISTICS OF AGENDA SETTING ON ONLINE MEDIA IN MONGOLIA (ICT – F029)

Bolormaa Battsojt and Dagiimaa Davaadorj

11:00-11:30 Coffee Break

11:30-13:05 Session 25.4

Learning Management Systems (LMS) // Virtual Learning Environments (VLEs) // Other

Room: Eduardo Viana II

Chair: Maha S. Yaseen

ASPECTS OF COMPUTATIONAL THINKING DEVELOPMENT IN FIRST-YEAR HEALTH SCIENCE STUDENTS (ELDL - F079)

Edita Butrime and Virginija Tuomaite

INTEGRATING AI-BASED SEARCH FEATURES IN LMS: DESIGN AND IMPLEMENTATION NEEDS AND ISSUES (ELDL - F042)

Andrea Molinari

ENHANCING EDUCATIONAL FEEDBACK WITH LLM-POWERED MULTI-AGENT SYSTEMS (ELDL - S023)

Lorenzo Pozzi

AN OVERVIEW OF THE VILLAGE PROJECT AND INSTRUCTIONAL DESIGN MODELS OPEN ACCESS DATABASE (ELDL – R199)

Firat Sarsar, Özge Andiç Çakır, Christos Vasilakis, Stella Tsovou, Stavros Theocharis, Miša Mojca Cajnko, Matic Pavlin, Blaž Likozar, Saqib Rasool Chaudhry, Linda Pavitola, Valdis Priedols, Nida Şensoy Mercan, Berk Deniz, Sima Mammadova and Urfan Taghiyev

11:30-13:05 Session 25.5

e-Health // Research Issues

Room: Eduardo Viana III

Chair: Qing Zeng

QUALITY REQUIREMENTS FOR LARGE LANGUAGE MODELS IN CLINICAL SETTINGS: A SCOPING REVIEW (EH - F027)

Theresa Thien Thanh Do Huynh, Uffe Kock Wiil and Ali Ebrahimi

PREDICTING SMALL DATA SEQUENCES WITH MISSING VALUES IN HEALTHCARE: FREQUENTIST VS BAYESIAN APPROACH (EH - F074)

Alexandra Vatian, Ivan Tomilov, Keram Gogoev and Natalia Gusarova

GENDER IMBALANCE IN AAL-FUNDED PROJECTS: A HIDDEN BARRIER TO MARKET SUCCESS (EH - S077)

Cosmina Paul and Alexandra Dobre

TEN REASONS TO SUPPORT OPEN-SOURCE E-HEALTH TECHNOLOGY (EH - R059)

John Kildea

11:30-13:00 Session 25.6

Sustainable Innovation

Room: Eduardo Viana I

Chair: Suhail M. Odeh

THE IMPACT OF INTEGRATED MARKETING COMMUNICATION AND SUSTAINABILITY-ORIENTED SERVICE INNOVATION ON RETAIL PERFORMANCE: DOES SIZE MATTER? (DTIM - F035)

Antonio Marín-García, Irene Gil-Saura, Maria Eugenia Ruiz-Molina and Mihaela Simona Moise

SOCIAL MEDIA MARKETING INNOVATIONS IN ROMANIAN ELECTORAL CAMPAIGNS: THE CASE OF THE 2024 PRESIDENTIAL ELECTIONS (DTIM - F075)

Stelian Brad and Bianca-Simina Deac

THE EFFECT OF VALUE CO-CREATION AND SOSI ON BUSINESS PERFORMANCE: DIFFERENCES BETWEEN HOTELS AND RETAIL ESTABLISHMENTS (DTIM - F039)

Mihaela Simona Moise, Irene Gil-Saura, Maria Eugenia Ruiz-Molina and Antonio Marín-García

13:05 Best Paper Awards Ceremony and Closing Session

Room: Eduardo Viana II

Profs. Pedro Isaias and Paula Miranda

You are invited to check the virtual presentations below.

Video Presentations

MCCSIS 2025

Online: Youtube

- INTRODUCING A PHYSIOLOGICAL WELLNESS INDEX (PWI) FOR HEALTH AND WELL-BEING** (DTIM – F034)
Ravishankar Sharma, Dhanjoo N. Ghista, Edmund Evangelista, Kapil Kumar Meena, Ashish Thakur and Syed M. Salman Bukhari
- DEEP LEARNING MODELS FOR BITCOIN PRICE PREDICTION ACROSS MULTIPLE HORIZONS** (DTIM – F118)
Sirine El Hadj, Fahmi Ben Rejab and Kaouhter Noura
- THE IMPACT OF DIGITAL MATURITY AND BEHAVIORAL INTENTION ON THE DIGITAL TRANSFORMATION USE IN LONG-TERM CARE INSTITUTIONS** (DTIM – F146)
Chin-Wei Wang and Yu-Shih Lee
- FROM ALGORITHM DESIGN TO ALGORITHMIC BIAS: IDENTIFYING DISCRIMINATORY RISKS IN INNOVATION MANAGEMENT** (DTIM – S155)
Federico Mertoli, Carmela E. Schillaci, Luigi Piper, Marco Benvenuto, Elisa R. Ferrari and Gianluigi Guido
- OBJECT SEGMENTATION BASED DEEP LEARNING MODELS: A REVIEW AND A BENCHMARKING STUDY** (BigDaCI – F040)
Rajaa Miftah, Mostafa Hanoune and Mohssine Bentaib
- DEEP NEURAL NETWORKS FOR IMAGE CLASSIFICATION: A COMPARATIVE STUDY AND BENCHMARKING** (BigDaCI - F042)
Rajaa Miftah, Mostafa Hanoune and Mohssine Bentaib
- PREDICT AND ESTIMATE THE CURRENT STOCK PRICES WITH POPULAR MACHINE LEARNING ALGORITHMS** (BigDaCI - F075)
Ying Bai and Dali Wang
- STANDARDISED OBJECT DETECTION AND HUMAN ACTION RECOGNITION IN COMBAT SPORTS** (CGVCVIP – F021)
Evan Quinn and Niall Corcoran
- SEEING THE UNSEEN: AI-POWERED CAMOUFLAGED PEST DETECTION** (CGVCVIP - F043)
Henry O. Velesaca and Angel D. Sappa
- GENERATIVE ADVERSARIAL NETWORK: TOWARDS A ROBUST NEAR INFRARED IMAGE COLORIZATION** (CGVCVIP - S059)
Patricia L. Suárez and Angel D. Sappa
- FRAMEWORK FOR NET ZERO PATHWAY FOR INDIAN CHEMICAL INDUSTRY** (STE – F021)
Mukundan Ramakrishnan, Wilson Kia Onn Wong and Suchismita Das
- INTEGRATED INTRUSION DETECTION AND PREVENTION MODEL FOR MOODLE LEARNING MANAGEMENT SYSTEM** (STE – F031)
Olayinka Anthony Ojo, Celestine Iwendi and Adedapo Paul Aderemi
- DIABETICA: A PERSONALIZED AI-POWERED PLATFORM FOR DIABETES MANAGEMENT** (EH – F029)
Mahmoud El Hamlaoui, Rdouan Faizi, Bouchaib Bounabat, Haitam El Hayani and Afraa Bouzgoura
- VALIDATING MAINTAINABILITY OF OPEN-SOURCE EHR SYSTEMS USING ISO STANDARDS: AN OPENMRS CASE STUDY** (EH – F033)
Marianne Lodvir Hemsing
- SMART HERITAGE: ADVANCED TECHNOLOGIES FOR SUSTAINABILITY IN HISTORIC CENTERS** (CSC - F019)
Stefania De Medici and Giuseppe Cataldi
- CONCEPTUAL MODEL OF THE TRIPARTITE APPROACH TO IMPROVING LEARNING OUTCOMES OF THE STUDY PROGRAM** (ELDL – S105)
Ljerka Luic and Ana Mulovic Trgovac
- CONTEXT STEERING AND AI FOR PERSONALIZED PLAYER EXPERIENCE IN VIDEO GAMES** (GET – F020)
Zachary Swensrude, Trevor Meester and Hossain Samar Qorbani
- PROPOSAL TO DESIGN A DIGITAL TWINS INTERFACE WITH VIRTUAL REALITY FOR TELECOMMUNICATION SITE, AN OVERVIEW** (IHCI – R023)
Miguel Ángel Gómez Garza, Leticia Amalia Neira Tovar and Juan Alberto Torres Lopez