

Program of the MCCSIS 2026

Multi Conference on Computer Science and Information Systems

Conference Sessions:

e-Learning and Digital Learning 2026

ICT, Society and Human Beings 2026

e-Health 2026

Sustainability, Technology and Education 2026

Game and Entertainment Technologies 2026

Interfaces and Human Computer Interaction 2026

Computer Graphics, Visualization, Computer Vision and Image Processing 2026

Connected Smart Cities 2026

Big Data Analytics, Data Mining and Computational Intelligence 2026

Digital Transformation and Innovation Management 2026

International Conference on Artificial Intelligence in Society 2026

Friday, 24th July 2026

17:00 – 18:30 Welcome Desk – Room: Liceo- only open for check-in and requests for information.

Saturday, 25th July 2026

08:30-19:10 Welcome Desk – Room: Liceo (closes for lunch 13:10 – 14:15)

09:30 – 10:00 Session O – Opening Session

Room: Ópera

Prof. Pedro Isaias

10:00 – 11:00 Keynote Session

Room: Ópera

CHALLENGING THE PARADIGMS: WHAT AI REALLY CHANGES — AND WHAT IT DOESN'T

Prof. Claudia Loebbecke, University of Cologne, Germany

11:00-11:30 Coffee Break

11:30-13:00 Session 25.1

Architecture of Educational Information Systems Infrastructure // Learning Management Systems (LMS)

Room: Ópera

Chair: TBA

ONTOLOGIES IN EDUCATION: DEVELOPING A MULTIPLE ONTOLOGY FOR DIGITAL EDUCATIONAL GAMES (ELDL – F091)

Kristian Stancin

RE-ENGINEERING LEARNING COLLABORATIVE PLATFORMS FOR MANAGING EDUCATIONAL PROJECTS (ELDL – F029)

Andrea Molinari

COLLABORATIVE LEARNING THROUGH PEER FEEDBACK ON STUDENT-GENERATED DIGITAL CONTENT IN MOODLE-BASED MATHEMATICS TEACHER EDUCATION (ELDL – F142)

Angelika Schmid, Lilla Korenova, Martina Totkovičová and Katarina Žilková

11:30-13:00 Session 25.2

Design issues

Room: Royal

Chair: TBA

MIXED-INITIATIVE TRIAL DESIGN IN VIDEO GAME QUESTS (GET – F055)

Steven R. Harris and Nicholas Caldwell

BEFORE CHOICE: PANOPTICISM AND THE INTERNALIZED REGULATION OF PLAYER JUDGMENT (GET – F026)

Ahyeong Shim and Jae-Jun Lee

OCCLUSION-DRIVEN ROUTE CHOICE: VISUAL INFORMATION GAPS AND PERCEPTUAL CURIOSITY AT BRANCHING PATHS IN A 3D GAME (GET – F086)

Gijung Lee, Changho Lee and Jaejun Lee

11:30-13:00 Session 25.3

Image Processing

Room: Scala

Chair: TBA

A RESPONSE-SURFACE FRAMEWORK FOR EMPIRICAL MODELING OF NONLINEAR COLOR ENHANCEMENT OPERATORS IN HSL SPACE (CGVCVIP - F027)

Simone Sbaraglia

NO-REFERENCE IMAGE QUALITY ASSESSMENT USING HYBRID DEEP NEURAL NETWORKS (CGVCVIP - F036)

Yu-Hsuan Lin and Jin-Jang Leou

SPECTRAL AUGMENTATION AND ADAPTIVE BAND SELECTION FOR DAMAGE SEGMENTATION (CGVCVIP - F040)

Sargis Grigoryan and Sos Agaian

11:30-13:10 Session 25.4

AI Ethics and Legislation/Regulation

Room: Fenice

Chair: TBA

WHEN DATA NEVER DIES: KEY CONSIDERATIONS AND FUTURE RESEARCH DIRECTION FOR DIGITAL AFTERLIFE MANAGEMENT (AIS - F052)

Hanlie Smuts

FROM QUANTUM READINESS TO AI READINESS: GOVERNANCE, ETHICS, AND INSTITUTIONAL PREPAREDNESS FOR EMERGING INTELLIGENT SYSTEMS (AIS - F015)

George Antoniou

HUMAN AGENCY UNDER GENERATIVE ACCELERATION - A PRE-DISTRIBUTIVE FRAMEWORK FOR HUMAN CAPITAL, SOCIAL RESILIENCE AND EDUCATION TRANSFORMATION (PROJECT: HAPPY GENES) (AIS – S016)

Karthik Pushparaj

DECOLONIALITY IN THE AI LIFECYCLE (AIS – S031)

Christo El Morr

11:30-13:00 Session 25.5

ICT and Globalization // Human-human communication

Room: Fenice

Chair: TBA

DESIGNING FOR DISCOMFORT: THE ETHICS OF REPRESENTING HUMAN SUFFERING THROUGH INTERACTIVE DATA VISUALIZATION (ICT – F045)

Wei Li and Bin Yu

HOW MUCH DIVERSITY BREAKS AN ECHO CHAMBER? A SIMULATION STUDY (ICT - F033)

Martin Žust, Alenka Guček, Abdul Sittar and Marko Grobelnik

INTEROPERABLE DIGITAL SKILLS FOR THE INTERNATIONALIZATION OF HIGHER EDUCATION IN UKRAINE: EVIDENCE FROM A SURVEY OF ACADEMIC STAFF (ICT - F035)

Rusudan Makhachashvili, Nataliia Vinnikova, Iryna Mankovska and Iryna Novoseletska

13:00 – 14:15 Lunch Break

14:15-16:25 Session 25.6

Change management in Digital Transformation // E-Commerce and Digital Marketing

Room: Scala

Chair: TBA

ARTIFICIAL INTELLIGENCE IN MANAGERIAL DECISION-MAKING: A CONCEPTUAL ANALYSIS OF ALGORITHMIC SUPPORT, OVERRELIANCE AND MANAGERIAL RESPONSIBILITY (DTIM - F035)

Liudmyla Ilich, Rusudan Makhachashvili and Olena Akilina

THE IMPACT OF FEMALE ENTREPRENEURSHIP ON E-COMMERCE (DTIM - F013)

Liliane Almeida, Emily de Oliveira Sandes, Mayara Branco da Silva and Yasmin Regina da Silva

FULFILMENT AND LAST-MILE CONFIGURATIONS IN ITALIAN ONLINE GROCERY RETAILING: EVIDENCE FROM LEADING SUPERMARKET CHAINS (DTIM - F051)

Andrea Payaro and Anna Rita Papa

DIGITAL TRANSFORMATION IN FAST-FOOD: PERSONALIZATION AS A STRATEGIC DRIVER OF LOYALTY (DTIM – S018)

Flavia Braga Chinelato and Diogo Batista de Freitas Cruz

A SYSTEM DYNAMICS MODEL FOR CLOUD ADOPTION: BRIDGING THE SOCIAL-TECHNICAL GAP IN DIGITAL TRANSFORMATION (DTIM – S038)

Shu-Mei Lee and Hei-Chia Wang

14:15 – 16:15 Session 25.7

Instructional Design Issues // Designing e-Learning Settings

Room: Ópera

Chair: TBA

DESIGNING TOGETHER: A ROLE-PLAYING TRAINING INTERVENTION FOR E-LEARNING TEAMS IN HIGHER EDUCATION (ELDL - F055)

Alice Pierluigi, Maria Palmese, Claudia Bellini and Tommaso Minerva

GENERATIVE AI AND DIGITAL ASSISTANTS FOR TEACHING HISTORY AND ARCHIVAL STUDIES (ELDL – F027)

Klára Rybenská

AUGMENTED REALITY AFFORDANCES IN PRE-SERVICE TEACHER EDUCATION: MAPPING CONCEPTUAL GAPS IN GEOMETRY (ELDL – F140)

Lilla Korenova, Angelika Schmid, Katarína Žilková, István Szókö and Kateřina Biernatová

OPTIMIZATION AND EVALUATION OF ONLINE QUIZZES FOR MATHEMATICS E-LEARNING ENVIRONMENTS (ELDL – S116)

Tetsuo Fukui

AN INTELLIGENT AND ADAPTIVE FRAMEWORK FOR E-LEARNING BASED ON LEARNER MODELING AND ENGAGEMENT PREDICTION USING MACHINE LEARNING (ELDL – P123)

Nadia Benjelloun, Moncef Zaki, Youssra Bellarhmouch, Adil Jeghal and Hamid Tairi

14:15-15:15 Session 25.8

Green IT and Sustainable Design

Room: Royal

Chair: TBA

USE OF IMMERSIVE TECHNOLOGIES TO IMPROVE SUSTAINABLE BUSINESS PROCESSES: A STRUCTURED LITERATURE REVIEW (STE - F038)

Evelyn Bernhardt, Anett Mehler-Bicher and Benjamin Weyers

DEVELOPMENT OF HBIM APPLICATION METHODOLOGY THROUGH THE CASE STUDY OF THE VESZPRÉM COUNTY LIBRARY (STE - F045)

Zsolt Szűrös, Rita Rebeka Szűrösné Ördög, Kitti Ajtayné Károlyfi, Dóra Szalai and Ádám Bukovics

14:15-16:15 Session 25.9

Pattern Recognition in Computer Vision

Room: Bolshoi

Chair: TBA

EXPLORING THE EFFECTIVENESS OF DEEP LEARNING MODELS FOR ELEPHANT PATH PREDICTION TO MITIGATE HUMAN-ELEPHANT CONFLICTS (CGVCVIP - F030)

Indhuja Gudluru, Ryan Huang, Robert Guldemon, Theresa Goetz and Hamed Tabkhi

FULL-REFERENCE IMAGE QUALITY ASSESSMENT BENCHMARKING AND MULTI-METRIC FUSION (CGVCVIP - F041)

Hrach Ayunts and Sos Agaian

SMOOTH BY DESIGN: CURVE DENOISING WITH AUTOENCODERS (CGVCVIP - F047)

Saeedeh Barzegar Khalilsaraei, Jianmin Zheng and Ursula Augsdörfer

TINYIMAGENET-HR: A NATIVE-RESOLUTION RECONSTRUCTION OF TINYIMAGENET FOR CONTROLLED MODEL EVALUATION (CGVCVIP - F046)

Nishanth Marer Prabhu and Gunar Schirner

14:15-16:25 Session 25.10
AI for the Progress of Society
Room: Fenice
Chair: TBA

BOTAS: A HUMAN-CENTERED NATURAL LANGUAGE INTERFACE FOR GNU/LINUX SYSTEM MANAGEMENT WITH MULTI-DISTRIBUTION SUPPORT (AIS - F024)

Jose Ramon Aragon Toledo and Ricardo Ruiz Rodriguez

AGROPRAGA ASSIST: A CONCEPTUAL MODEL OF TRUST IN THE INTERACTION BETWEEN FARMERS AND A HUMAN-CENTERED INTELLIGENT VIRTUAL ASSISTANT IN CABO VERDE - A GROUNDED THEORY ANALYSIS (AIS - F075)

Olavo Teixeira, Sónia Semedo, Celestino Barros and Hugo Paredes

METHODOLOGY FOR GENERATION OF A SYNTHETIC ARTIFACT DATASET IN MAGNETIC RESONANCE IMAGING OF THE BRAIN (AIS - F067)

Jesus D. Rios-Perez, German Sanchez-Torres, John W. Branch-Bedoya and Camilo A. Laiton-Bonadiez

INCLUSIVE AI DESIGN FRAMEWORK FOR HEALTHCARE SUPPORT OF VULNERABLE POPULATIONS (AIS – S093)

Yoo Kyung Chang, Venetia Liu and Nidia Richardson

AN ENHANCED COMPUTER VISION-BASED PIPELINE FOR STRUCTURAL DAMAGE ASSESSMENT USING EXPLAINABLE AI (AIS- P021)

Alberto Falcone, Agostino Forestiero and Luigi Rizzo

AGILE AURORA: EXPERIMENTAL RESULTS OF APPLYING GENERATIVE ARTIFICIAL INTELLIGENCE IN THE SOFTWARE DEVELOPMENT CYCLE IN THE PUBLIC SECTOR (AIS - P069)

Antonio Oliveira, Ana Morais, Sérgio Gomes and Alexandre Brainer

15:25-16:15 Session 25.11
User studies and fieldwork
Room: Royal
Chair: TBA

DESIGN ASSUMPTIONS IN PRACTICE: AN ETHNOMETHODOLOGICAL ANALYSIS OF OLDER ADULTS' INTERACTION WITH BANKING SELF-SERVICE MACHINES (IHCI - F049)

Karin Spevak, René Baranyi, Karl Pinter, Dominik Hölbling and Thomas Grechenig

CHATGPT-ENHANCED DIGITAL STORYTELLING IN TEACHER EDUCATION (IHCI - S051)

Emine Cabi

16:15-16:45 Coffee Break

16:45 – 18:35 Session 25.12
Higher and Further Education // Other
Room: Ópera
Chair: TBA

BUILDING COMMUNITY BUT MISSING PRACTICE: HOW CONFERENCE DESIGN SHAPES KNOWLEDGE TRANSFER AND EXCHANGE FOR SMALL AND MEDIUM-SIZED ENTERPRISES (ELDL – F092)

Luis-Aaron Wulfert, Marcel Patalon, Anja Wyczisk and Peter Weber

EU-DRIVE: AN INNOVATIVE CURRICULUM ON EUROPEAN DIGITAL COMPETENCE, AI LITERACY AND OPEN KNOWLEDGE GOVERNANCE FOR UKRAINIAN HIGHER EDUCATION (ELDL – F082)

Nataliia Vinnikova, Rusudan Makhachashvili, Tetiana Opryshko, Larysa Bondarenko, Iryna Novoseletska and Iryna Mankovska
INTELLIGENT TPack IN SCIENCE EDUCATION AND TEACHER TRAINING: STAKEHOLDERS' PERSPECTIVES (ELDL – F054)

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

DIGITIZED EXPERIMENTAL DEMONSTRATIONS TO ENHANCE STEM TEACHING IN HIGHER EDUCATION (ELDL – S068)

Peter Hockicko

16:45 – 19:00 Session 25.13
Intelligent Medical Systems
Room: Royal
Chair: TBA

EEG DATA ANALYSIS FOR COGNITIVE DECLINE STATES RECOGNITION (EH – F065)

Dobromir Boyadzhiev, Olga Georgieva and George Petkov

EXPLORATION OF MACHINE LEARNING ALGORITHMS FOR MENTAL HEALTH DIAGNOSTIC ASSESSMENTS (EH – F029)

Irosh Fernando

FROM SEARCH TO SYMPTOM - A PREVENTIVE DIGITAL ANXIETY-FOCUSED INTERVENTION TO INTERRUPT CYBERCHONDRIA IN ONLINE HEALTH INFORMATION SEEKING (EH – S043)

Niko Malleczek, Eszter Mészárosné Csuta, Carina Arnberger, Christoph Aigner, Selina Breue, Thomas Grechenig and René Baranyi

REMOTE PATIENT MONITORING BEYOND DATA CAPTURE: AN EXPLORATORY EVALUATION OF A DIGITAL ASSISTANT PROTOTYPE FOR OLDER ADULTS AND CLINICIANS (EH – S036)

Christopher Friese, Robert Klebbe, Sandra Strube-Lahmann and Nils Lahmann

PARTICIPATORY DESIGN OF AN AI-BASED SYSTEM FOR AT-HOME PHYSIOTHERAPY FOR THE ELDERLY (EH – S026)

Fayçal Nait Irahah, Sina-Mareen Beuchel, Dominik Batić, Carsten Meyer and Dagmar Meyer

AI-MODEL-SUPPORTED STANDARDIZED USER EXPERIENCE EVALUATION OF SERIOUS GAMES: REQUIREMENTS, METHODS AND FEASIBILITY (EH - R047)

Selina Breuer, Carina Arnberger, Christoph Aigner, Werner Hoerner, Thomas Grechenig and René Barnanyi

16:45– 18:45 Workshop
Room: Scala

USING DESIGN THINKING TO FOSTER INNOVATION

Prof. Pedro Isaías and Prof. Paula Miranda

16:45 – 18:55 Session 25.14
Data Management // Data Quality // Stock Market Analysis
Room: Fenice
Chair: TBA

DEEP ENERGY INTELLIGENCE IN HPC: UNVEILING USER BEHAVIORS VIA STREAMING SENSOR ANALYSIS AND GENERATIVE AI-ENHANCED SEMANTIC DISCOVERY (BIGDADI - F027)

Davide De Chiara, Francesco Genovese and Marta Chinnici

A DATA ENGINEERING PIPELINE FOR BUILDING A RENEWABLE ENERGY LAKEHOUSE FROM HETEROGENEOUS PUBLIC APIS (BIGDADI - F046)

Leonardo Canuto Junior, Pedro Filipe Oliveira and Paulo Matos

ANALYZING THE SENSITIVITY OF MACHINE LEARNING ALGORITHMS TO DATA QUALITY ERRORS WITH DIRTIFY (BIGDADI - F064)

Andrea Maurino

MARKOV CHAIN BASED EVOLUTIONARY STRATEGIES CAN RECONSTRUCT LLM2VEC TOKENS (BIGDADI - S024)

Dimosthenis Margaritis, Dimitris Karidas and Helen C. Leligou

PUBLIC DISCOURSE ON MEME STOCK DYNAMICS: A PSYCHOLINGUISTIC ANALYSIS (BIGDADI - S021)

Joo Baek (J. B.) Kim and Song Yoon

16:45-18:55 Session 25.15
Life environment and ICT// Connected Smart Cities
Room: Bolshoi
Chair: TBA

FROM DATA POVERTY TO SMART OPTIMIZATION: ACCEPTANCE, TRANSPARENCY AND SOCIO-TECHNICAL SYSTEMS IN PUBLIC SERVICES (ICT – F029)

Marian Popa, Claudia Banciu, Claudiu Isarie and Adrian Florea

HEALTHCARE-DRIVEN REQUIREMENTS FOR BEYOND 5G SYSTEMS: A KVI-BASED SURVEY OF CLINICAL NEEDS AND NETWORK CAPABILITIES (ICT – F042)

Nils Lahmann, Simone Kuntz, Martin Hocquel-Hans, Mareike Tabea Jansen, Sandra Strube-Lahmann and Andreea Corici

MODELING THE SOCIETAL TRUST ATTACK SURFACE IN CONVERGING DIGITAL ENVIRONMENTS (ICT – F027)

Francesco Buccafurri

A VOXEL-BASED GEOSPATIAL TOOL FOR HYPER-LOCAL CITIZEN ENGAGEMENT IN SMART CITIES (CSC – S032)

Evelyne Brie

TALQ V2 FOR MULTI-VENDOR SMART STREET LIGHTING: IMPLEMENTATION RESULTS FROM REAL DEPLOYMENTS (CSC – S024)

José Sanchis Pérez De León

Sunday, 26th July 2026

08:30-15:30 Welcome Desk – Room: Liceo (closes for lunch 13:10 – 14:15)

09:00-10:10 Session 26.1

Pedagogical Models // Higher and Further Education

Room: Opera

Chair: TBA

AN ICAP-BASED APPROACH TO REDUCING MULTITASKING IN DIGITAL CLASSROOMS (ELDL – F158)

Bertil P. Marques and Marilío Cardoso

C.B.D. LEARNING IN SOCIAL ENTREPRENEURSHIP EDUCATION: CREATIVE AND BALANCED LEARNING IN THE DIGITAL AGE (ELDL – S146)

Varintra Sirisuthikul and Pichai Pusumpun

AI IN HIGHER EDUCATION: A CONCEPTUAL FRAMEWORK FOR PEDAGOGICAL PARTNERSHIPS (ELDL – S163)

Yoo Kyung Chang

09:00-11:00 Session 26.2

Strategic alignment with technology // Digital innovation ecosystems

Room: Scala

Chair: TBA

DIGITALIZATION AND FIRM PERFORMANCE IN TOURISM: A SYSTEMATIC LITERATURE REVIEW OF MEDIATING MECHANISMS (DTIM – F044)

João Tiago Francisco Moreira Silva, Célia Maria Salmim Rafael, João Emanuel Gonçalves Santos Costa and Paulo Jorge dos Santos Almeida

DIGITAL TRANSFORMATION CAPABILITY AND ORGANIZATIONAL OUTCOMES: THE MEDIATING ROLE OF ORGANIZATIONAL AGILITY IN VIETNAMESE SMES (DTIM – F040)

Ha Nguyen-Van, Chuyen Van-Nguyen, Sam Duong-Linh, Nam Nguyen-Khanh and Quoc Dang-Nam

FROM FRAGMENTED SYSTEMS TO ECOSYSTEM COLLABORATION: THE FEDERATED MARITIME DATA SPACE APPROACH (DTIM – F060)

Marianna Corsano, Andrea Castino, Daniele Filippone, Alberto Castelli, Fabiano Cattaneo and Marco Rocco

LIVE VIRTUAL MACHINE MIGRATION IN BANDWIDTH-CONSTRAINED WAN ENVIRONMENTS: AN EXPERIMENTAL STUDY ON THE LIMITS OF LIVE VM MIGRATION FOR OFFLINE-FIRST VIRTUAL LABORATORIES (DTIM - F071)

Henry-Norbert Cocos and Christian Baun

09:10-11:00 Session 26.3

Effects on humans // Other

Room: Fenice

Chair: TBA

THE ROLE OF MISINFORMATION IN THE INFORMATION SOCIETY (ICT – F016)

Namosha Veerasamy

TOWARD HUMAN-CENTERED SMART HOME AUTOMATION: A DATA-DRIVEN IOT FRAMEWORK FOR ENERGY EFFICIENCY AND SUSTAINABLE LIVING (ICT – F061)

Mahdi Houshang and Asefeh Asemi

INVESTIGATION INTO ATTITUDES TOWARD EVERYDAY EXPOSURE TO INFORMATION (ICT - F021)

Yukiko Maruyama

SAFE JUMP: A SERIOUS GAME FRAMEWORK FOR EXECUTIVE FUNCTION TRAINING IN MOBILE AND VIRTUAL REALITY ENVIRONMENTS (ICT - S037)

David Andrés Moreno, Deisy Chaves, Maria Trujillo and Juan Carlos Rivas

09:10-11:00 Session 26.4

Big Data Applications // Data Mining Topics and Applications

Room: Royal

Chair: TBA

AN INNOVATIVE METHOD FOR MODELING CONSTRAINT-TYPE BUSINESS RULES (BIGDADI – F058)

Patrik Hrkút, Michal Ďuračík, Matej Meško and Jaroslava Kniežová

CRIME IN TRINIDAD AND TOBAGO: A DATA-DRIVEN STATISTICAL ANALYSIS (BIGDADI – F020)

Andre Davis and Fernando Koch

EVOLUTIONARY FEATURE SELECTION IN MULTIREPRESENTATIONAL TEXT CLUSTERING (BIGDADI – F061)

João Gaspar, Marco Antonio G. Carvalho and Leandro de Castro

EVALUATING CLIMATE INFLUENCES AND SPATIAL PATTERNS OF RICE YIELD VARIABILITY IN SOUTH KOREA (BIGDADI – S062)

Nhat Duy Duong and Emanuel Santos

10:15 – 11:00 Panel Session

Room: Ópera

Chair: TBA

BETWEEN GENAI AND IMMERSIVE TECHNOLOGIES: HOW WILL GENAI AND IMMERSIVE TECHNOLOGIES CHANGE TEACHING IN HIGHER EDUCATION?

Lisa Kammholz and Anett Mehler-Bicher

11:00-11:30 Coffee Break

11:30-13:05 Session 26.5

Development methodologies // Emerging practices

Room: Ópera

Chair: TBA

INTEROPERABLE GAMING ASSETS MECHANICS IN GAMES: AN EXPLORATORY CASE STUDY ON QUDO COINS (GET – F063)

Guilherme Amaral, Ana Patricia Oliveira, Liliana Vale Costa, Nelson Zagalo and João Abrantes

FITTING SPEEDRUN WORLD RECORD DATA TO A TRIPLE EXPONENTIAL DECAY MODEL FOR GAME COMPARISON, DATA ANALYSIS AND PREDICTION (GET – F039)

Curtis James O’Kelly and Gabriel Batista Caldeira

FROM CONCEPT TO PLAY: DESIGNING A COOPERATIVE BOARD GAME FOR FOSTERING COMPUTATIONAL THINKING SKILLS (GET – S017)

Ádám Gulácsi and Maria Csernoch

TOWARDS A DEVELOPER-CENTRIC AUTOMATIC GAME TESTING FRAMEWORK (GET - R032)

Andreas Jonasson, Alberto Enrique Alvarez Uribe and José Maria Font Fernandez

11:30-12:15 Session 26.6

Trustworthy and responsible AI // Explainable and interpretable AI

Room: Fenice

Chair: TBA

WHEN “FAIR” ISN’T JUST: THE LIMITS OF FAIRNESS METRICS (AIS – F020)

Lambèr Royakkers

CARTESIAN AI (AIS – R056)

Giuseppe Pernagallo

11:30-13:10 Session 26.7

eHealth Architectures // eHealth Collaborative Strategies and Techniques

Room: Royal

Chair: TBA

RECONSTRUCTING TELEHEALTH IN BRAZIL: CYCLES, RUPTURES AND RECONFIGURATION OF A PUBLIC POLICY WITHIN THE BRAZILIAN UNIFIED HEALTH SYSTEM (SUS) (EH – F022)

Ana Estela Haddad, Mariana Abreu Caporali de Freitas and Alaneir de Fátima dos Santos

A RISK-BASED ARCHITECTURE FOR TRUSTWORTHY PUBLIC HEALTH AI. CASE OF A DIABETES-DEDICATED PUBLIC CHATBOT (EH – F053)

Bouchaïb Bounabat

TELECONSULTATION AS A STRATEGY FOR CARE INTEGRATION IN PUBLIC HEALTH SYSTEMS: EVIDENCE FROM A BRAZILIAN EXPERIENCE (EH – S024)

Mariana Abreu Caporali de Freitas, Amanda Guias Santos Silva, Christina Coelho Nunes and Alaneir de Fátima dos Santos

ATOMIC CONSENT RULES AND SMART AUTHORIZATION FOR FEDERATED HEALTH DATA (EH - S063)

Fernando Latorre, Ivan Becerro and Nuria Sala

11:30-12:30 Session 26.8

Sustainability and Sustainable Design // Sustainability and Environment

Room: Royal

Chair: TBA

DATABASE BUILDING FOR THE ENVIRONMENTAL IMPACT ANALYSIS OF HISTORICAL BRICK MANUFACTURING: LIFE CYCLE ASSESSMENT OF CIRCULAR KILN TECHNOLOGY (STE – F050)

Rita Rebeka Szűrósné Ördög, Tamás Horváth and András Veöreös

RELATIONSHIP BETWEEN ELECTRICITY CO₂ EMISSION INTENSITY AND SOLAR CAPACITY FACTORS ACROSS U.S.A. STATES: EVIDENCE FROM A LAKEHOUSE-BASED ANALYTICS PLATFORM (STE – F042)

Leonardo Canuto Junior, Pedro Filipe Oliveira and Paulo Matos

11:30-12:50 Session 26.9

Affective User-Centred Analysis, Design and Evaluation // The Value of Affective Interfaces / Systems / Application / Interaction

Room: Scala

Chair: TBA

A COMPUTATIONAL EXPLORATION OF AFFORDANCES AND DISAFFORDANCES IN AI COMPANION APPLICATIONS (IHCI – F030)

Chitra Gautam and Pradeep Kumar

DESIGN INSIGHTS ON HUMAN-CENTERED ROBOTICS FROM THE FIELD (IHCI - F016)

Günter Alce, Björn Fisher, Fatih Çiftçi, Dilek Tükel, Daniele Fontanelli and Susanne Frennert

UNIQUE CENTERED DESIGN: DESIGNING DIGITAL SYSTEMS FOR HUMAN UNIQUENESS (IHCI - S017)

Eva de Lera, Otilia Kocsis and Reyes Fernández Medina

12:20 – 13:05 Panel Session

Room: Fenice

DESIGNING HUMAN-AI RELATIONSHIPS

Sangeetha Ramanath

13:00 – 14:15 Lunch Break

14:30-15:30 Session 26.10

Computer Vision

Room: Scala

Chair: TBA

VQ-VAD: VECTOR-QUANTIZED MOTION REPRESENTATION LEARNING FOR HUMAN-CENTRIC VIDEO ANOMALY DETECTION (CGVCVIP - F029)

Narges Rashvand, Ghazal Alinezhad Noghre, Shanle Yao, Gabriel Maldonado and Hamed Tabkhi

STEREO MATCHING USING TRANSFORMER-BASED DEEP NEURAL NETWORKS (CGVCVIP - F043)

Yu-Hsuan Lin and Jin-Jang Leou

14:30-15:30 Session 26.11

e-Learning Pedagogical Strategies

Room: Fenice

Chair: TBA

STUDENT-AI RESEARCH MENTOR COLLABORATION: INITIAL FINDINGS FROM AN INTRODUCTORY RESEARCH METHODS COURSE (ELDL -F045)

Abdullah Saykili

BALANCING DATA CENTRICITY AND PEDAGOGY: ENHANCING LEARNING DESIGN IN COMPUTER-INTEGRATED EDUCATION SYSTEMS (ELDL - F136)

Corlia Smuts and Machdel Matthee

15:30 – Conference Tour and Dinner

Monday, 27th July 2026

08:30-13:10 Welcome Desk – Room: Liceo

08:40-11:00 Session 27.1

AI in Education

Room: Fenice

Chair: TBA

MAPPING THE RISE OF ARTIFICIAL INTELLIGENCE IN HIGHER EDUCATION: A BIBLIOMETRIC ANALYSIS (AIS – F057)

Eduardo Amadeu Dutra Moresi, Mário de Oliveira Braga Filho, Ana Cláudia Guimarães Santos and Vilson Carlos Hartmann

ARTIFICIAL INTELLIGENCE IN ENGLISH FOR SPECIFIC PURPOSES LEARNING: COMPARATIVE PERSPECTIVES OF BUSINESS AND LEGAL STUDENTS (AIS – F086)

Dileta Jatautaite, Vaiva Zuzeviciute and Edita Butrime

ARTIFICIAL INTELLIGENCE IN BUSINESS INNOVATION: APPLICATION OF GAMIFICATION IN CORPORATE TRAINING (AIS – F033)

Silvia Noroña Gallo, Ikiam Zurita Londoño and Daniela Romo Moya

A STRUCTURAL EQUATION MODELING APPROACH TO ARTIFICIAL INTELLIGENCE ADDICTION, DIGITAL PROCRASTINATION AND ACADEMIC PERFORMANCE AMONG UNIVERSITY STUDENTS (AIS - S074)

Duygu Tunalı

AI-ENHANCED MULTIMODAL DIGITAL ECOSYSTEM FOR WARTIME DISCOURSE DOCUMENTATION AND NLP APPLICATIONS (AIS - S088)

Rusudan Makhachashvili and Nataliia Bober

08:45-11:00 Session 27.2

User/player centered design

Room: Royal

Chair: TBA

PLAYER IMITATION FOR DIFFICULTY CONTROL IN LLM-AGENT-BASED CONVERSATIONAL GAMES (GET - F061)

Yunosuke Tsunoda, Kosei Nakazono and Qiang Ma

EXPLORING USER DEMOGRAPHICS FOR VIDEO GAME RESEARCH (GET – F029)

Elizabeth A. Matthews, Trey Custodio and Sanjog Basnet

REAL-TIME MULTIMODAL COGNITIVE-STATE MONITORING FOR COLLEGIATE ESPORTS TRAINING: A WORK-IN-PROGRESS REPORT (GET – S034)

Bradley Young

THE MODULATORY EFFECTS OF TEMPO ON PLAYER'S GLOBAL PERFORMANCE IN FIRST-PERSON SHOOTER VIDEO GAMES (GET - S038)

Ben Paramore, Christopher P. Dewey and Duke Gledhill

ITERATIVE PLAYER-CENTERED DESIGN OF A COLOR-STATE SWITCHING MECHANIC IN A 2D PLATFORMER: BALANCING COMBAT, TRAVERSAL AND ENGAGEMENT (GET – S049)

Vijay Kumar

INTERPRETING COGNITIVE VISIBILITY IN DIGITAL GAMES: A REFLECTION ON BIOMETRIC PLAY (GET – R036)

Bradley Young

09:00-11:00 Session 27.3

Higher and Further Education

Room: Ópera

Chair: TBA

CHATGPT IN THE CLASSROOM: LANGUAGE LEARNING, IDENTITY, AND HYBRIDITY AMONG JORDANIAN GENERATION Z IN ELEARNING CONTEXTS (ELDL – F036)

Maha S. Yaseen

HIGHER EDUCATION IN THE AGE OF ABUNDANT INTELLIGENCE: LEARNING AFTER THE COLLAPSE OF SCARCITY (ELDL – F113)

John Gibbs

RETHINKING THE ROLE OF EDUCATORS: GENAI AND IMMERSIVE TECHNOLOGIES IN HIGHER EDUCATION - A SYSTEMATIC LITERATURE REVIEW (ELDL – F132)

Lisa Kammholz and Anett Mehler-Bicher

HOW ARE OPEN-SOURCE TOOLS AND AI TRANSFORMING WRITING PEDAGOGY IN ENGINEERING: CASE STUDY (ELDL – F058)

Cherifa Boudia, Hadya Boufera and Kamal Benhaoua

09:00-11:00 Session 27.4

Emerging Technologies and Disruptive Innovation // Application Areas

Room: Scala

Chair: TBA

FROM STRATEGIC ASSET TO SURVIVAL COST: IDENTIFYING THE ECONOMIC THRESHOLD OF IT IN FINANCIAL SERVICES (DTIM - F055)

Efrem Mbaki Luzayisu

SERVICE SCIENCE MAPPING: A BIBLIOMETRIC ANALYSIS (DTIM – F085)

Marija Kuštelega, Katarina Pažur Aničić and Renata Mekovec

THEMATIC EVOLUTION OF BLOCKCHAIN-RELATED ACADEMIC PRODUCTION IN PORTUGAL (DTIM – F059)

Rita Amaral Santos, Catarina Marques, Cármen Guimarães, Fernando Costa, Hélder Gomes and Ciro Martins

EMBEDDING GREEN INNOVATION IN ORGANIC FOOD SUPPLY CHAINS: ORGANIZATIONAL AND PROCUREMENT PERSPECTIVES (DTIM – F068)

Mervener Şahin, Halit Keskin, Ekrem Tatoglu and Emel Esen

11:00-11:30 Coffee Break

11:30-12:50 Session 27.5

Serious Games and Entertainment – Applications, Critiques

Room: Ópera

Chair: TBA

FROM GAMES TO LEARNING ECOSYSTEMS: THE CONVERGENCE OF AI AND BLOCKCHAIN TO SUPPORT EDUCATIONAL TECHNOLOGIES (GET - F052)

Marko Suvajdžić and Daryn Dever

A FIELD-BASED PILOT EVALUATION OF DRAWING: A SERIOUS BOARD GAME FOR UNDERSTANDING THE ADDICTION PROCESS (GET - F066)

Minseo Song and Jae-Jun Lee

BEYOND THE INTERVIEW: A DIAGNOSTIC FRAMEWORK FOR GAME-BASED TALENT ASSESSMENT (GET - S023)

Manuela Sachse and Jessica Melzer

11:30-12:45 Session 27.6

Research Issues // Infrastructure and Architecture

Room: Royal

Chair: TBA

APPLICATION OF THE INTERNET OF THINGS FOR MONITORING OLDER ADULTS WITH DEPRESSION (EH - F032)

Edwing Antonio Almeida Calderón, Marcela Esperanza Buitrón de la Torre and Yadira Alatraste Martínez

PARENTING WITH DEPRESSION: A SOCIAL MEDIA-BASED PARENTING PROGRAM (EH - F060)

James Guevara, Rhonda Boyd, Knashawn Morales, Ellie Marino, Laura Betancour and David Mandell

BALANCING INNOVATION AND COMPLIANCE: A HYBRID METHODOLOGY FOR MODERN MHEALTH APPLICATIONS (EH – R021)

Theodoros Solomou, Constantinos S. Pattichi and Eleni Constantinou

11:30-13:00 Session 27.7

Image Generation // Shading and Rendering

Room: Scala

Chair: TBA

DCGAN-BASED SYNTHETIC LUMBAR MRI GENERATION FOR DEGENERATIVE DISC DISEASE DATASET AUGMENTATION (CGVCVIP - F023)

Mckinley Magale, Niall Corcoran and Mark Daly

TOPOLOGICALLY CONSISTENT MODELING AND DEFORMATION OF A 3D CAENORHADBIS ELEGANS PHANTOM USING FREE FORM DEFORMATION (CGVCVIP - F038)

Anna-Louise Brun, Ali Rouwane, Guillaume Devès, Hervé Seznec, Pascal Desbarats and Claire Michelet

USER-FRIENDLY AND CUSTOMIZABLE SCREEN-SPACE OUTLINE TOOL FOR GAME ENGINES (CGVCVIP - F017)

Victor Melià-Vilar, Álvaro Chuan Díaz-Maroto and Miguel Chover

11:30-13:10 Session 27.8

Computational Intelligent Frameworks // Data Mining Topics and Applications

Room: Fenice

Chair: TBA

BLOCK SCHEDULING IN MIXED-MODEL SHIPBUILDING BASED ON HYPERGRAPH REINFORCEMENT LEARNING (BIGDADI - F043)

Guobin Pei and Zuhua Jiang

INTEGRATING LIFETIME CLUSTERING AND ROLLING-HORIZON PLANNING FOR IMPERFECT MAINTENANCE IN MULTI-MACHINE SYSTEMS (BIGDADI – F_056)

Amro Abdullah Nacheif, Lamia A. Shihata and Jens Kiefer

AUTOMATED DEPRESSION DETECTION IN DIABETIC PATIENTS USING SOCIAL MEDIA: A BIOCLINICALBERT-BASED APPROACH (BIGDADI – S048)

Rdouan Faizi, Mahmoud El Hamlaoui and Bouchaib Bounabat

DESIGN OF A PLATFORM FOR REMOTE SENSING AND FUSION OF LOW-ALTITUDE ENVIRONMENTAL DATA AND MULTI-SOURCE DECISION SUPPORT FOR AREAS WITH MINING POTENTIAL (BIGDADI – S050)

Efrem Mbaki Luzayisu and Aimé Lay Ekuakille

13:10 Best Paper Awards Ceremony and Closing Session

Room: Ópera

Profs. Pedro Isaias and Paula Miranda