

# CONFERENCE PROGRAM

## 23<sup>rd</sup> International Conference on Applied Computing 2026

## International Conference on Data Science and Digital Innovation 2026

## 25<sup>th</sup> International Conference on WWW/Internet 2026

### Saturday 24<sup>th</sup>, October 2026

**08:30-18:45 Welcome Desk** (closes for lunch – 13:00 to 14:15)  
(Room: Eduardo Viana IV)

**09:40-10:00 Session O – Opening Session**  
(Room: Eduardo Viana II)

#### OPENING SESSION

*Profs. Pedro Isaias and Paula Miranda*

**10:00-11:00 Session KL – Keynote Presentation**  
(Room: Eduardo Viana II)

#### “BEYOND AUTOMATION AND OFFLOADING: RETHINKING HUMAN-AI COLLABORATION FOR LEARNING”

*Professor Michail Giannakos, Co-Director of AI LEARN, Norwegian University of Science and Technology (NTNU), Norway*

**11:00-11:30 Coffee Break**

**11:30-13:00 Session 24.1**

**Deep learning**

(Room: Eduardo Viana III)

*Chair: TBA*

#### ATTENTION-BASED CHAOTIC SELF-SUPERVISION FOR MEDICAL IMAGE CLASSIFICATION (F034)

*João Batista Florindo and Amanda Pontes de Oliveira Ornelas*

#### AN EXPLAINABLE ARTIFICIAL INTELLIGENCE FORECASTING TOOL FOR ELECTRICITY DEMAND (F072)

*Kimberly Sorrell, Amir Etemadi and Shahram Sarkani*

#### ROBUST SEA STATE CLASSIFICATION ACROSS THE BEAUFORT SCALE USING SYNTHETIC DATA AUGMENTATION (F070)

*Miran Pobar and Marina Ivacic-Kos*

**11:30-13:00 Session 24.2**

**Software engineering // Data engineering**

(Room: Eduardo Viana I)

*Chair: TBA*

#### AN ONTOLOGY TO DEFINE COGNITIVE PRODUCTION MODELS FOR PROGRAMMING COCKTAILS (F036)

*Rodrigo Casal Novo, Alvaro Costa Neto, Maria João Varanda Pereira and Pedro Rangel Henriques*

#### RETHINKING THE SOFTWARE PROJECT FRAMEWORK: FOUNDATIONS FOR THE DEVELOPMENT OF SPF 2.0 (F106)

*Marta Maria Guedes da Silva Neta and Hermano Perrelli de Moura*

#### A MICROSERVICES ARCHITECTURE FOR A WEB-BASED DECISION SUPPORT SYSTEM FOR OLIVE TREE DISEASE PROTECTION (F046)

*Maria Eduarda Pedroso, António Jorge da Silva Trindade Duarte, Fabio Irigon Pereira and Maria João Tinoco Varanda Pereira*

**13:00-14:15 Lunch Break**

**14:15-15:15 Session KL – Keynote Presentation**  
(Room: Eduardo Viana III)

#### “FROM TRUST TO INSIGHT: THE ROLE OF INTELLIGENT HCI IN DECENTRALIZED HEALTHCARE”

*Professor Cristiano André da Costa, UNISINOS, Brazil*

**15:20-16:10 Session 24.3**

**Smart Organisations, Platforms, and Digital Ecosystems**

**(Room: Eduardo Viana III)**

**Chair: TBA**

**BEYOND PRIVACY CALCULUS: HOW REALIZED CUSTOMER VALUE DRIVES DATA SHARING IN AI-ENABLED RETAIL RELATIONSHIPS (F036)**

*Martha Rivera-Pesquera, José Antonio Lanzguerrero and Patricia Garza*

**BRIDGING THE GAP IN S&OP 4.0: A DECISION INTELLIGENCE ARTIFACT FOR ADVANCED FORECASTING AND SCENARIO SIMULATION (S043)**

*Luiz Reni Trento*

**15:20-16:20 Session 24.4**

**Web Data and Knowledge**

**(Room: Eduardo Viana I)**

**Chair: TBA**

**A REQUIREMENT-DRIVEN AGENT-BASED APPROACH FOR QUALITY ASSESSMENT OF ENTERPRISE KNOWLEDGE GRAPHS (F014)**

*Narciso Arruda, Valéria M. Pequeno, Flávio Lima, Frederico Ribeiro, Vânia M. P. Vidal and Marco A. Casanova*

**FROM EXPERT-DEFINED META-PATHS TO AUTOMATICALLY DISCOVERED SEMANTIC CRITERIA FOR EXPLAINABLE ONTOLOGY-BASED RECOMMENDATION IN THE CBRN DOMAIN (F056)**

*Manos Markoulakis, Angelos Mikelis, Stefanos Palmos, Vagelis Karakolis, Sofia Karma, Christos Ntanos, Spiros Mouzakitis and Dimitris Askounis*

**16:15-16:45 Coffee Break**

**16:45-18:45 Session 24.5**

**AI & Computational Methods**

**(Room: Eduardo Viana III)**

**Chair: TBA**

**CTIS: CRITICAL TASK INDEX SCHEDULER FOR AI-DRIVEN 5G IOT HEALTHCARE NETWORKS (F062)**

*Ammad Ali, Asad Masood Khattak, Noman Gul, Ashraf Khalil, Imran Taj and Bashir Hayat*

**DISTURBANCE-IMPACT-DOMAIN HYPERGRAPH REINFORCEMENT LEARNING FOR SHIP-BLOCK REACTIVE SCHEDULING (F063)**

*Guobin Pei and Zuhua Jiang*

**ZERO-SHOT FORECASTING USING TIME SERIES FOUNDATION MODELS ON INDUSTRIAL DATASETS (F091)**

*Bernhard Anzengruber-Tanase and Ekaterina Sysoykova*

**SINGLE-IMAGE MULTIMODAL FACIAL ANALYSIS FOR EXPLORATORY AUTISM CLASSIFICATION: AN IDENTITY-AWARE EVALUATION (F130)**

*Mohammad Abbadi, Yassine Himeur, Shadi Atalla, Mohammad Sami Zitouni, Hussain Al-Ahmad and Mohammed A. Ala'anzy*

**16:45-18:45 Session 24.6**

**Machine learning**

**(Room: Eduardo Viana I)**

**Chair: TBA**

**UNLOCKING OPTIMUM-PATH FOREST CAPABILITIES IN WEAKLY-SUPERVISED PIXEL-LEVEL SEGMENTATION FOR ISCHEMIC STROKE LESION (F045)**

*Danilo Samuel Jodas, João Paulo Papa and Fumie Costen*

**DIABETIC FOOT RISK ASSESSMENT AND PREDICTION USING ENSEMBLE MACHINE LEARNING (F051)**

*Bakhtiar Amen, Sardasht Mahmood and Grigoris Antoniou*

**HIGH-DIMENSIONAL OUTLIER DETECTION USING DISTANCE DESCENT AND APPROXIMATE SEARCH (F080)**

*David Muhr, Michael Affenzeller and Josef Küng*

**MACHINE LEARNING APPLIED TO DETECT DEPRESSIVE SYMPTOMS: A SYSTEMATIC LITERATURE MAPPING (F100)**

*Willian Jorge Sousa Furtado, Almir Martins de Oliveira and Jose Wilker Pereira Luz*

## Sunday 25<sup>th</sup>, October 2026

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

**08:50-11:00 Session 25.1**  
**Applied Digital Systems**  
**(Room: Eduardo Viana III)**  
**Chair: TBA**

**WHAT COMES NEXT? GROUNDED INDUSTRIAL GUIDANCE GENERATED AT RUNTIME (F104)**  
*Jonathan Kressel, Md Khalid Siddiqui and Gunther May*  
**OVERCOMING HIGH INTRINSIC GNSS ALTITUDE SENSING ERRORS FOR ANDROID APPS ASSISTING PILOTS IN STEERING FIXED-WING AEROPLANES (F114)**  
*Hans Weghorn*  
**AN INTERACTIVE ENVIRONMENT FOR EXECUTABLE OPERATIONAL SEMANTICS (F074)**  
*William Steingartner, Juraj Molčan, Samuel Novotný, Monika Kohútová and Davorka Radaković*  
**TOWARDS A FEDERATED INDUSTRIAL METAVERSE: FROM FEDERATED EXCHANGE TO A FEDERATED PRESENCE (S094)**  
*Christoph Zieringer, Jessel John, Vineet Nagrath, Gökhan Cenk and Gunther May*  
**OPENDESIGN IN THE MUNICIPAL CONFERENCE OF CITIES: AN EXPERIENCE GROUNDED IN SOCIALLY AWARE DESIGN (S052)**  
*Flávio Henrique Alves, Maria Cecília Calani Baranauskas and Alexandre L'Erario*

**09:30-11:00 Session 25.2**  
**Intelligent systems**  
**(Room: Eduardo Viana I)**  
**Chair: TBA**

**BENCHMARKING INFORMATION ACCESS STRATEGIES FOR SLIDE-AWARE RETRIEVAL-AUGMENTED GENERATION (F097)**  
*Alexandru Florentin Florea, Iulian Popa and Alexandra Băicoianu*  
**NOTHING LEAVES THE ROOM: MEASURING A FULLY ON-PREMISES SPEECH ASSISTANT AND ITS FAILURE MODES (F103)**  
*Md Khalid Siddiqui, Jonathan Kressel, Gökhan Cenk and Gunther May*  
**WARM-STARTED METAHEURISTICS FOR SELECTIVE PICKUP-AND-DELIVERY ROUTING FOR A SINGLE COURIER (F122)**  
*Rareş-Nicolae Oneţ, Adrian-Marius Deaconu and Iulian Popa*

**11:00-11:30 Coffee Break**

**11:30-13:00 Session 25.3**  
**Cybersecurity**  
**(Room: Eduardo Viana III)**  
**Chair: TBA**

**REFORGE: A METHOD FOR BENCHMARKING LLMS' REVERSE ENGINEERING CAPABILITIES IN DECOMPILED BINARY FUNCTION NAMING (F044)**  
*Nicolas Koller and Andreas U. Schmidt*  
**EDGE-ORIENTED INTRUSION DETECTION FOR IEC 61850 GOOSE MESSAGES: A REAL-TIME UNIDIRECTIONAL GRU APPROACH (F028)**  
*Carlos Eduardo de Sousa, Francisco Jorge Alves de Oliveira, Bilmar Angelis de Almeida Ferreira, Kleber Melo e Silva, Fábio Lúcio Lopes de Mendonça and João José Costa Gondim*  
**ADAPTIVE RANK-BASED NODE ANOMALY DETECTION IN DYNAMIC GRAPHS (F129)**  
*Claudia Cavallaro*

**11:30-13:00 Session 25.4**  
**Artificial Intelligence for the Web**  
**(Room: Eduardo Viana I)**  
**Chair: TBA**

**SEMANTIC HARNESS FOR ENERGY FLEXIBILITY AGENTIC AI PLATFORM (F048)**  
*Milorad Tosić, Nenad Petrović and Olivera Tosić*  
**PILOT SETUP AND EVALUATION OF AI-BASED SOLUTIONS FOR DATA DRIVEN APPLICATIONS (F049)**  
*Alexandros Kostopoulos, Ioannis P. Chochliouros, George Lyberopoulos, Dimitris Salmatanis, Jason Diakoumakos, Ioannis Panaretou, Alexandros Patsias, Christos Zaroliagis, Spyros Kontogiannis and Dimitris Tzempelikos*  
**PRIVACY-AWARE REPUTATION SYSTEMS: AGENTIC DETECTION AND SANITIZATION OF SELF-DISCLOSURE IN ONLINE REVIEWS (F057)**  
*Sandeep Kalari, Ravi Mukkamala and Stephan Olariu*

**13:00-14:15 Lunch Break**

**14:15-15:15 Session 25.5**

**Data Science in Health, Education, Finance, Government, and Industry**

**(Room: Eduardo Viana III)**

**Chair: TBA**

**EMERGENCY TEAM TRAINING WITH VIRTUAL REALITY: SCOPING REVIEW (F044)**

*Sónia Viegas and Luís Velez Lapão*

**ENHANCING MULTIMORBIDITY MANAGEMENT IN PRIMARY CARE THROUGH THE INTEGRATION OF AI-DRIVEN  
PREDICTIVE MODELS WITHIN DIGITAL HEALTH PLATFORMS: A SCOPING REVIEW (F045)**

*Vicente Maia and Luís Velez Lapão*

**15:30 – Social Event (meeting point at the hotel lobby)**

## Monday 26<sup>th</sup>, October 2026

**08:30-13:15 Welcome Desk**  
**(Room: Eduardo Viana IV)**

**10:00-11:00 Session 26.1**  
**Digital Innovation and Data-Driven Transformation**  
**(Room: Eduardo Viana III)**  
**Chair: TBA**

**THE IMPERATIVE FOR UNIFORM REGULATORY REPORTING ACROSS GLOBAL SYSTEMICALLY IMPORTANT BANKING INSTITUTIONS: AN AI-ENABLED FRAMEWORK FOR INVESTOR CONFIDENCE AND CROSS-BORDER FINANCIAL TRANSPARENCY (F052)**

*Ranjani Balaji*

**SIMULATING 15-MINUTE CITY ACCESSIBILITY IN BARCELONA: INTEGRATING TOPOGRAPHY AND DEMOGRAPHIC DIVERSITY (F037)**

*Christopher Matienzo Chilo, Vladimir Estivill-Castro and Manuel Portela Charnejovsky*

**11:00-11:30 Coffee Break**

**11:30-13:00 Session 26.2**  
**Digital platforms**  
**(Room: Eduardo Viana III)**  
**Chair: TBA**

**CATEGORIZATION OF CONTENT DELIVERED TO USERS OF DIFFERENT GENDERS ON YOUTUBE SHORTS (F044)**

*Arthur Garcia Torrezani, Kênia C. Gonçalves and Renato Miranda Filho*

**DIGITAL GOVERNMENT STRATEGIES TO REDUCE WAITING LISTS IN THE COSTA RICAN SOCIAL SECURITY SYSTEM: A MULTIDIMENSIONAL ANALYSIS (F060)**

*Alberto Mata-Rojas, Susan López-Aguilar, Daniel Rojas-Gómez and Roberto Cortés-Morales*

**WHY DO TEACHERS PARTICIPATE IN MOOCs? A STUDY OF GREEK EDUCATORS' MOTIVATIONS AND USER PROFILES (F017)**

*Ioanna Tzagkaraki, Ioannis Lefkos, Nikolaos Fachantidis and Marianthi Karatsiori*

**13:00 Best Paper Awards Ceremony and Closing Session**  
**(Room: Eduardo Viana II)**

*Profs. Pedro Isaías and Paula Miranda*