



September 25 – 27
Athens, Greece
(Hybrid)

Conference Program

The timetable corresponds to Eastern European Summer Time
(EEST); UTC+3 hours

Day 1 – Wednesday, September 25

08.30 – 09.00

Registration

25/09/2024

Registration for authors attending onsite

09.00 – 09.30

Opening

25/09/2024

Cleo Sgouropoulou, Valéry Psyché

Greetings from the General Chairs

Phivos Mylonas, Dimitris Kardaras, Jaime Caro

Greetings from the Program Committee Chairs

09.30 – 11.00

Session 1

25/09/2024

Session Chair: George Voutos

Jeremy Vincent Yu, Richelle Ann Juayong and Jaime Caro

eBoto 2.0: A Novel Receipt-free Voting System

Hans Daniel Lorico, Amiel David Zamuco, Jaime Caro and Richelle Ann Juayong

Decentralizing Philippine Driver's License Application and Identity Management for Transparency, Efficiency, and Security: A Design Proposal

Zine El Abidine Bouneb

Formal Verification of an IoT-based Railway gate system

Denis Sinkevich, Anton Anikin, Alexey Chibrikov and Dmitrii Litovkin

Evaluating Resource Efficiency and Economic Benefits of Blockchain Smart Contracts Compared to Cloud Platforms

Lara Angeline Punsalan, Christian Jay Rosales and Jozelle Addawe

ARsenic: A Gamified Augmented Reality Supplement for Grade School Physics

Ali Özkahraman, Tamer Ölmez and Zümray Dokur

Impact of Noise Elimination Methods on Classification Performance in Motor Imagery EEG

11.00 – 11.30

Coffee Break

25/09/2024

11.30 – 12.30

Keynote Speech

25/09/2024

Assoc. Prof. Olga C. Santos, Department of Artificial Intelligence, UNED's School of Computer Science

Title: Empowering Human Motion Computing through AI and Sensor Data: Advances in Physical User Modeling

12.30 – 14.00

Session 2

25/09/2024

Session Chair: Hans Daniel Lorico

Carl Joseph Mate and John Paul Yusiong

MosquitoNet: A Siamese CNN Mosquito Species Identification System Using Audio Signals

Francis Miguel Colaljo, Kent Roian Basit, Rochelle James Jaudian, Apple Rose Alce, Paul Rodolf Castor, Paul Jr.

Bokingito, Antonio Marajas, Stefany Mae Caparida and Adrian Galido

Development of an Image-Based Reverse Vending Machine using Raspberry Pi

Konstantin Nazarov, Nikolay Rashevskiy, Natalia Sadovnikova, Konstantin Egorov and Mikhail Sagalaev

Software solution for soundscape modeling

Christos Yiakoumettis and Nikitas Karanikolas

Personalized Path Planning Estimation of Georeferenced Urban Scene Considering Criminality Map: the case of Attica



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Marc Gabriel Macaraeg, Jose Ellis Caluag, Jaime D. L. Caro, Richelle Ann Juayong and Jozelle Addawe
Sismika: Designing a Seismic Event Interactive Map for Seismic Awareness and Preparedness

Mohamed Essalhi, Sergio Martínez-Cid, Vanesa Herrera, Javier Albusac, Santiago Schez-Sobrino and David Vallejo

Fatigue Detection Model for Upper Limb Rehabilitation in Virtual Reality

14.00 – 15.00

25/09/2024

Lunch

15.00 – 17.00

25/09/2024

Session 3

Session Chair: Amiel David Zamuco

Georges Bou Ghantous

Enabling Digital Transformation using DRA

Andrew Asante and Petr Hajek

Detecting Antisocial Behavior on Social Media during COVID-19 Lockdown

Jan Paul Batrina, Brill Julian Riña, Raisa Ruth Gonzaga, Richelle Ann Juayong, Sandy Mae Gaspay and Francis George Cabarle

Metrocycle: Designing a Browser-based Road Safety Education App for Motorcycle and Bicycle Riders in the Philippines

Norlyn Jane Castillo and John Paul Yusiong

EntréeNet: A Triple Input CNN Food Classification System using Multi-Color Spaces

Jerina Jean Ecleo and Adrian Galido

Modeling dengue cases and online search behavior for prediction models

Alexandros Bousdekis, Savvas Kaffantzis, Georgia Theodoropoulou and Georgios Miaoulis

Remaining Cycle Time Prediction in Business Processes with TPOT Regression for Automated Machine Learning

Lamia Bendebane, Zakaria Laboudi and Asma Saighi

AutoNLP for optimal number of epochs in multi-labeled deep-learning models for predicting mental disorders

Vladislav Feklistov, Alexander Gurtyakov, Aleksey Shuklin, Oksana Savina and Tatyana Ereshchenko

Virtual Reality Tools for Creating Interactive Digital Twins of Attractions Infrastructure

17.00 – 18.30

25/09/2024

Session 4

Session Chair: Karima Boussaha

Ayemen Chibouti, Samia Drissi, Aida Chefrour and Karima Boussaha

Towards advanced approaches to predict students dropout in MOOCs

Orestis Papadimitriou, Athanasios Kanavos, Gerasimos Vonitsanos, Manolis Maragoudakis and Phivos Mylonas

Advancing Sentiment Analysis of IMDB Movie Reviews with a Hybrid Multinomial Naive Bayes and LSTM Approach

Akrivi Krouska, Christos Troussas, Christos Papakostas, Efi Stavrianakou, Phivos Mylonas and Cleo Sgouropoulou

The effect of Social Networking-based Multimedia Repository on Promoting Open Educational Resources

Dianne Mondido, Fernand Bernardez and Hazel Trapero

VolAR: A Potential Tool in Developing Spatial Ability and Volume Solving through Augmented Reality

Gwyneth Rose Rosario and Richard Bryann Chua

Evaluation of ConcreteML for Secure Multi-Class Tumour Classification with Homomorphic Encryption

Stavroula Stryftoy, Akrivi Krouska, Christos Troussas, Phivos Mylonas and Cleo Sgouropoulou

Exploring teachers' attitudes and self-efficacy towards AI Learning in Science instruction

Day 2 – Thursday, September 26

09.30 – 11.00

Session 5

26/09/2024

Session Chair: Maria Trigka

Oleg Yakunin, Danila Parygin, Artyom Chikin, Mikhail Kulikov and Sergey Rekunov

Automation of UAV Control for Monitoring High-Altitude Objects

Farhana Sultana Eshita, Abu Bakar Siddique Mahi, Alope Kumar Saha and Shah Murtaza Rashid Al Masud

Advancing Cancer Diagnosis with LungColonGuard: A Deep Learning Framework for Lung and Colon Cancer Detection from Histopathological Image

Panagiotis Strousopoulos, Christos Troussas, Akrivi Krouska and Cleo Sgouropoulou

Architecting Immersive Education: Designing an Intelligent Online Virtual University

Maria Sofia Georgopoulou, Christos Troussas, Cleo Sgouropoulou and Ioannis Voyiatzis

Struggling to Adapt: Exploring the Factors that Hamper the Integration of Innovative Digital Tools in Higher Education Courses

Maximo Paz Iaconis Sabato and Felix Cuello

Forecasting the Unseen: detecting weather sensor faults in wind farms through unsupervised learning

Elias Dritsas, Maria Trigka and Phivos Mylonas

A Survey on Privacy-Enhancing Techniques in the Era of Artificial Intelligence

11.00 – 11.30

Coffee Break

26/09/2024

11.30 – 13.30

Session 6

26/09/2024

Session Chair: Hans Daniel Lorico

Ihcene Djouama, Nabil Kadache and Rachid Seghir

ML-Based Weather Forecasting Models: a comparative study

Maria Sofia Georgopoulou, Christos Troussas, Cleo Sgouropoulou and Ioannis Voyiatzis

Technology is not enough: Educators as Catalysts for Sparking Student Interest and Engagement in Higher Education

Carl David Ragunton, Zedec Pacaldo and Jozelle Addawe

JeePS: Designing a Realtime Public Transportation Tracking System

Maria Poli, Konstantinos Malagas and Christos Papakostas

The Contribution of Advanced Technologies to the Tourism Experience of Disabled People: the Greek Case

Dmitrii Litovkin and Kirill Kulyukin

An approach to formal verification of programs in learning C programming

Guy Carlos Tamkodjou Tchio, Roger Nkambou, Ange Adrienne Nyamen Tato and Valéry Psyché

Handling of Abnormal Aircraft Takeoff Procedures : Cognitive Modeling of an ACT-R Synthetic Pilot Integrating an Ontological Reference Model

Mikhail Tevelev, Danila Parygin, Timofey Kovalev, Anton Finogeev and Alexey Churakov

Parametric Generation of Buildings and Structures Models based on Data on Existing Infrastructure Objects

Angelo Cedric Panganiban, Bryan Andrei Galecio, Veeda Michelle Anlacan, Roland Dominic Jamora, Michael Tee, Maria Eliza Aguila, Cherica Tee, Isabel Teresa Salido and Jaime Caro

Development of an Economized CAVE System Emulating an HMD-Based IVR Therapy Game

13.30 – 14.30

Lunch

26/09/2024

14.30 – 16.30

Session 7

26/09/2024

Session Chair: Amiel David Zamuco

Angela Nicole Mendoza and Jasmine Malinao

Model Decomposition of Robustness Diagram with Loop and Time Controls to Sequence Diagrams using Maximal Activities

Ihcene Djouama, Nabil Kadache and Rachid Seghir

Machine Learning-Driving Cellular Automata: Application in Urban Engineering Games

Abu Bakar Siddique Mahi, Farhana Sultana Eshita, Tasnim Jahin Mowla, Alope Kumar Saha and Shah Murtaza Rashid Al Masud

QBNNet: A Lightweight Quantized Model For Dynamic Banana Disease Recognition

Gerasimos Vonitsanos, Ioannis Gounaridis, Andreas Kanavos and Phivos Mylonas

Enhancing Aviation Efficiency through Big Data and Machine Learning for Flight Delay Prediction

Andrey Krygin, Pavel Karpenko and Oleg Sychev

Performing First-Order-Logic Queries over RDF Data: Interpreter versus Compiler to Apache Jena Rules

Zeru Kifle Kebede and Petr Hajek

Detection of IoT Cyberattacks in Smart Cities: A Comparative Analysis of Deep Learning and Ensemble Learning Methods

Mehmet Bozdal

Temporal Logic-Based Intrusion Detection for Securing Connected Vehicles

Andreas Marougkas, Christos Troussas, Akriivi Krouska, Cleo Sgouropoulou and Ioannis Voyiatzis The Interaction of Virtual Reality in Classrooms: Addressing Ethical Challenges in Educational Technology

16.30 – 17.30

Keynote Speech

26/09/2024

Prof. Ben Daniel, Department of Computer Science and Centre for Teaching, Learning and Technology, University of Northern British Columbia

Title: Digital Transformation in Higher Education—From Intelligent Tutoring Systems to Generative AI—Current Challenges and Future Research Directions

20.00

Gala Dinner

26/09/2024

Day 3 – Friday, September 27

09.30 – 11.30

Session 8

27/09/2024

Session Chair: Hans Daniel Lorico

Daniel Zentai, Gergo Petrik and Robin Frot

A Web Application for Secure Data Collaboration

Frances Ysabelle Rebolledo and Jaime Caro

Code Comprehension Problems in Introductory Programming to Overcome ChatGPT

Viktor Uglev

Cognitive Maps of Knowledge Diagnosis (CMKD): the essence of the method, classification, characteristics and synthesis principles

Daniil Bystryakov, Denis Levshin, Alexander Zubkov and Anastasia Donsckaia

Performance study of SIFT and Swin Transformer algorithms in fuzzy duplicate image detection problem

Caroline Chabal, Thibaud Durand, Hamza Belaazri, Julien Delrieu, Michael Gauthier, Alain Ledoux and Christian Père

Developing Digital Twins to Assist in the Control of Nuclear Complex Processes



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Dany Rimez, Axel Legay and Benoit Macq

Ensuring Data Security and Annotators Anonymity through a Secure and Anonymous Multiparty Annotation System

Zouleikha Betaitia, Aida Chefrour and Samia Drissi

GAN-based Data Augmentation for Learning Behavior Analysis in MOOCs

Georgy Smirnov and Viktor Uglev

Experimental results of using cognitive maps of knowledge diagnosis in different modes to explain the recommendations of Intelligent Tutoring Systems

11.30 – 12.00

Coffee Break

27/09/2024

12.00 – 13.30

Session 9

27/09/2024

Session Chair: Amiel David Zamuco

Matthew John Sino Cruz and Jaime Caro

A Hybrid Deep Learning Approach for Brain Tumor Classification

Abd-Ed-Daïm Tenachi, Hadia Cherrid and Karima Boussaha

Towards multi-agent personalized adaptive generic learning system- A generic pedagogical domain modeling

Imene Djari, Rachid Seghir and Nabil Kadache

Improving WRF Model Performance using AI techniques

Tamara Šmaguc and Robert Kudelić

Natural Language Processing in Entrepreneurship and Small Business Research: An Insight, Open Problems, and Implications

Abdennour Redjaibia, Samia Drissi, Karima Boussaha, Sevinç Gülseçen and Yacine Laffi

Unveiling Interactive Narratives: Enhancing MOOCs with Interaction Fiction

Artem Shcherbakov, Alexander Gurtyakov, Yaroslav Trudov, Olga Golubeva and Vladimir Zorin

Generative Design of Urban Facilities Using Knowledge Models of Building Codes

13.30 – 14.30

Closing & Best Paper Awards

27/09/2024

Note:

- All the papers should have a **15-minute** duration **including Q&A** (13 minutes for oral presentation, 2 minutes for answering questions from the audience).
- The timetable of the NiDS2024 Program corresponds to **Eastern European Summer Time (EEST); UTC+3 hours**.
- The **NiDS2024 Conference link** is : [Click here to join the meeting](#) *
Meeting ID: 390 457 398 132
Passcode: 2gMNuu

* <https://teams.microsoft.com/j/meetup-join/19%3ah5MEuV7yQ73Eh8Ud7aFyvyastIR-CDyb7BEWwigAq41%40thread.tacv2/1724311439464?context=%7b%22id%22%3a%220c8943ee-c370-4bb3-ba51-321f406f32ec%22%2c%22oid%22%3a%224d87f611-a6f2-4156-8750-bfe9b354823d%22%7d>

