19TH INTERNATIONAL CONFERENCE ON 
Intelligent Tutoring Systems  
“AUGMENTED INTELLIGENCE and ITS”

SATURDAY, JUNE 3

FRIDAY, JUNE 2  18.00 - 19.00  REGISTRATION

OPENING CEREMONY

ACCESS TO THE SESSION
Greetings from the Program Chairs: Prof. Claude Frasson, Assis. Prof. Christos Troussas
Greetings from Ionian University Authorities
Greetings from the Organization Chair: Dr. Kitty Panourgia

ACCESS TO THE SESSION
Keynote Speech
Seiji Isotani, Visiting Professor of Education at the Harvard Graduate School of Education, USA
Personalization of Gamification in Education: Where Augmented Intelligence Meets Playfulness

Sessions 1 & 2: Track 1 - Intelligent Tutoring Systems

Session 1
Session Chair: Dr. Nikiforos Stefanos
ACCESS TO THE SESSION
T1:#14
Anaëlle Badier, Mathieu Lefort and Marie Lefevre (F)
Understanding the usages and effects of a recommendation system in a non-formal learning context

T1:#4
Viktor Uglev and Oleg Sychev (F)
Synthesising didactic explanatory texts in Intelligent Tutoring System based on the information in cognitive maps

T1:#5
Wijdane Kaiss, Khalifa Mansouri and Franck Poirier (F)
Towards a Chatbot-based Learning Object Recommendation: A Comparative Experiment

T1:#6
Oleg Sychev and Marat Gumerov (F)
Generating Pedagogical Questions to Help Students Learn

Session 2
Session Chair: Mr. Spyros Tzimiris
ACCESS TO THE SESSION
T1:#13*
Amal Ben Soussia, Azim Roussanaly and Anne Boyer (F)
Early Warning Systems: How to Generate Early and Accurate Alerts of At-risk of Failure Learners?

T1:#1*
Daniel Vasić, Branko Žitko, Ani Grubisic and Angelina Gašpar (F)
KEMMRL: Knowledge Extraction Model for Morphologically Rich Languages

T1:#15*
Rabin Banjade, Priti Oli and Vasile Rus (F)
Automated Extraction of Domain Models From Textbook Indexes For Developing Intelligent Tutoring Systems

T1:#8*
Matteo Orsoni, Alexander Pöggelt, Nghia Duong-Trung, Mariagrazia Benassi, Milos Kravcik and Martin Grüttmüller (F)
Recommending Mathematical Tasks Based on Reinforcement Learning and Item Response Theory

LUNCH

* Onsite presentation
Sessions 3 & 4: Track 1 - Intelligent Tutoring Systems

Session 3
Session Chair: Dr. Stelios Karagiannis

ACCESS TO THE SESSION
T1:#56
Guy Carlos Tamkodjou Tchio, Marc-Antoine Courtemanche, Roger Nkambou, Ange Adrienne Nyamen Tato and Valéry Psyché (F)

Integrating an Ontological Reference Model of Piloting Procedures in ACT-R Cognitive Architecture to simulate piloting tasks

T1:#41
Amel Yessad (F)

Using the ITS components in improving the Q-learning policy for instructional sequencing

T1:#62
Reva Freedman, Lucas Edwards, Ian Sullivan, Dean LaBarbera and Virginia Naples (F)

Teaching Cardiovascular Physiology with a Minigame-based ITS

T1:#63
Emmanuel Blanchard (F)

Expert-centered design recommendationsto promote engagement in authoring activities of adaptive learning technologies

T1:#49
Marc-Antoine Courtemanche, Ange Adrienne Tato and Roger Nkambou (F)

A Framework for Automatic Task Ontology Execution in a Complex Environment

T1:#34
Mariana-Madalina Nastase and Elvira Popescu (S)

Towards Integrating Learnersourcing, Microlearning and Gamification in Moodle

Session 4
Session Chair: Ms. Katia Kermanidis

ACCESS TO THE SESSION
T1:#51*
Hemilis Rocha, Patricia Tedesco, Evandro Barros and Julios Rocha (F)

An approach for detecting gaming the system behavior in programming problem solving

T1:#55*
Fuhua Lin and Supun De Silva (F)

An Approach to Generating Adaptive Feedback for Online Formative Assessment

T1:#40*
Tomasz Sosnowski, Moh'D Abuazizeh, Thomas Kirste and Kristina Yordanova (F)

Development of a Conversational Agent for Tutoring Nursing Students to Interact with Patients

T1:#3*
Michał Mackowski, Mateusz Kawulak, Piotr Brzozoa and Dominik Spinczyk (F)

Method and Tools to Supporting Math Learning in Inclusive Education of Blind Students

T1:#42*
Alyssa Hajj Assaf, Hamdi Ben Abdessalem and Claude Frasson (F)

Detecting Mental Fatigue in Intelligent Tutoring Systems

SATELLITE EVENT - PART 1

Session Chair: Ms. Katia Kermanidis

EN.I.R.I.S.S.T.+ (https://enirisst-plus.gr/) is an intelligent National Research Infrastructure that aims to be the center of excellence in Shipping, Transport and Supply Chain in Greece by incorporating AI solutions therein. Project partners from all over the country will present their research progress and achieved results within the project.

RECEPTION

In the Garden of Science of History Building

* Onsite presentation
Session 5 & 6: Track 1 - Intelligent Tutoring Systems

Session 5
Session Chair: Dr. Despina Mouratidou
ACCESS TO THE SESSION
T1:#2 Vladymyr Meitus and Clara Simon de Blas (S)
Functional programming of intelligent systems

T1:#10 George Zografos and Lefteris Moussiades (S)
A GPT-based Vocabulary Tutor

T1:#18 Hiba Gharbaoui, Khalifa Mansouri and Franck Poirier (S)
Towards a social learning analysis using LMS and LXP to predict learners’ success

T1:#22 Stavros A. Nikou and Maiga Chang (S)
Learning by Building Chatbot: A System Usability Study and Teachers’ Views about the Educational Uses of Chatbots

T1:#28 Viktor Uglev (S)
Explanatory didactic dialogue in the Intelligent Tutoring Systems based on the cross-cutting approach

T1:#61 Junya Morita, Masaji Kano, Shigen Shimojo, Yoshimasa Ohnato and Yugo Hayashi (S)
Model-based Support for Collaborative Concept Mapping in an Open-ended Domain

T1:#50 Maryam Ghaderi, Amin Banyad Khalaj, Hamdi Ben Abdessalem and Claude Frasson (F)
Attention Assessment of Aircraft Pilots Using Eye Tracking

T1:#37 Natawut Monaikul and Barbara Di Eugenio (F)
Detecting Interlingual Errors: The Case of Prepositions

Session 6
Session Chair: Ms. Maria Nefeli Nikiforou
ACCESS TO THE SESSION
T1:#59* Fatma Miladi, Daniel Lemire and Valéry Psyché (S)
Learning Engagement and Peer Learning in MOOC: A Selective Systematic Review

T1:#38* Anis Bey and Ronan Champagnat (S)
Toward a Smart Tool for Supporting Programming Lab Work

T1:#20* Paulo Roberto Cordova, Iderli Pereira de Souza Filho, Gilleanes Thordvald Araujo Guedes and Rosa Maria Vicari (S)
ETHOSCHOOL: An Artificial Moral Agent Model for Collaborative Learning

T1:#57 Michele La Barbera, Filippo Sciarrone and Marco Temperini (S)
Helping Teachers to Analyze Big Sets of Concept Maps

T1:#48 Maryam Ghaderi, Hamdi Ben Abdessalem, Maxime Antoine and Claude Frasson (S)
Estimation of Piloting Attention Level Based on the Correlation of Pupil Dilation and EEG

T1:#64 Ted Krahn, Rita Kuo and Maiga Chang (S)
Personalized Study Guide: A Moodle Plug-in Generating Personal Learning Path for Students

T1:#44 Mehnuma Tabassum Omar, Nafisul Kiron and Julita Vassileva (S)
iQUIZ!: A Collaborative Learning Tool for Promoting Growth Mindset using Persuasive Strategies

T1:#31 Heeseok Jung, Jaesang Yoo, Yohaan Yoon, and Yeonju Jang (F)
Language Proficiency Enhanced Knowledge Tracing

*Onsite presentation
Sessions 7 & 8:

- **Track 3:** Augmented Intelligence in Games, Serious Games and Virtual Reality
- **Track 5:** Augmented Intelligence and Metaverse
- **Track 6:** Security, Privacy and Ethics in Augmented Intelligence
- **Track 7:** Applied Natural Language Processing

**Session 7**
Session Chair: Dr. Kalliopi Kastampolidou

**T6:#30**
Dimitrios Tzimas and Stavros Demetriadis (F)
Culture of Ethics in Adopting Learning Analytics

**T6:#7**
Ana Matías and Iraide Zipitria (S)
Promoting Ethical Uses in Artificial Intelligence Applied to Education

**T3:#39**
Jindi Wang, Ioannis Ivriissimtzis, Zhaoxing Li, Yunzhan Zhou and Lei Shi (F)
User–Defined Hand Gesture Interface to Improve User Experience of Learning American Sign Language

**T3:#46**
Mahdi Zarour, Hamdi Ben Abdessalem and Claude Frasson (F)
Expert–centered design recommendationsto promote engagement in authoring activities of adaptive learning technologies

**T5:#54**
Benedikt Hensen (F)
Mixed Reality Agents as Language Learning Tutors

**T5:#45**
Doru Anastasiu Popescu, Daniela Maria Cristea and Nicolae Bold (F)
On an integrated assessment for the students within an academic consortium

**T5:#25***
Azza Basiouni (S)
Metaverse and Virtual Environment to improve attention deficit hyperactivity disorder (ADHD) students’ learning

**Session 8**
Session Chair: Mr. Thomas Papikinos

**T7:#86**
Christos Troussas, Christos Papakostas, Akrivi Krouska, Phivos Mylonas and Cleo Sgouropoulou (F)
Personalized feedback using Natural Language Processing in Intelligent Tutoring Systems

**T7:#16***
Kentaro Shiga and Naoyuki Morimoto (F)
Joint Topic Model with Selected Side Information for Inter-University Syllabus Analysis Focusing on the Variety of Instructional Approaches

**T7:#36***
Rita Kuo, Maria F. Iriarte, Di Zou and Maiga Chang (F)
Preliminary Performance Assessment on Ask4Summary’s Reading Methods for Summary Generation

**T7:#26***
Qiongqiong Liu, Zitao Liu, Shuyan Huang, Jiahao Chen, Xiangyu Zhao, Yuyu Zhou and Weiqi Luo (F)
SC-Ques: A Sentence Completion Question Dataset for English as a Second Language Learners

**T7:#19**
Solomon Ubani and Rodney Nielsen (F)
Improving Collaboration via Automated Intelligent Nudges

**T7:#52**
Laila Alrajhi and Alexandra Cristea (F)
Plug & Play with Deep Neural Networks: Classifying Posts that Need Urgent Intervention in MOOCs

**T7:#12**
Stavros Demetriadis and Yannis Dimitriadis (S)
Conversational Agents and Language Models that learn from Human Dialogues to Support Design Thinking

**LUNCH BREAK**

**SATELLITE EVENT - PART 2**

**Session Chair: Ms. Katia Kermanidis**

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**ACCESS TO THE SESSION**

**GALA DINNER**
*Onsite presentation*
19TH INTERNATIONAL CONFERENCE ON
Intelligent Tutoring Systems
“AUGMENTED INTELLIGENCE and ITS”

MONDAY, JUNE 5

9.30 – 10.30

ACCESS TO THE SESSION

Keynote Speech
Panos Kourouthanassis, Professor and Dean of the Faculty of Information Science & Informatics, Department of Informatics, Ionian University, Greece
Designing immersive information systems in the era of artificial intelligence

Sessions 9 & 10:

- Track 2: Augmented Intelligence in Healthcare Informatics
- Track 4: Neural Networks and Data Mining

Session 9
Session Chair: Prof. Panagiotis Kourouthanasis

T2:#60*
Manuel Rebol, Alexander Steinmaurer, Florian Gamillscheg, Krzysztof Pietroszek, Christian Gütl, Claudio Ranniger, Colton Hood, Neal Sikka and Adam Rutenberg (F)
CPR Emergency Assistance through Mixed Reality Communication

T2:#17*
Bharat Shankar and Carol Hargreaves (S)
Multimodal learning for clinical risk prediction in Intensive Care Units

T2:#27
Yves S. Nkulu-Ily (F)
Combining XR and AI for integrating the best pedagogical approach to providing feedback in Surgical Medical Distance Education

T2:#35
Hamdi Ben Abdessalem and Claude Frasson (F)
Emotional Impact of Cognitive Priming on Alzheimer’s Disease

T2:#11
Xiaoshan Huang, Shan Li and Susanne Lajoie (F)
The Relative Importance of Cognitive and Behavioral Engagement to Task Performance in Self-Regulated Learning With an Intelligent Tutoring System

10.30 - 12.50

ACCESS TO THE SESSION

Session 10
Session Chair: Ms. Maria Nikopoulou

T4:#29
Tingfeng Pan, Guang Feng, Xin Liu and Wenyuan Wu (F)
Using Feature Interaction for Mining Learners’ Hidden Information in MOOC Dropout Prediction

T4:#32
Ange Adrienne Nyamen Toto, Roger Nkambou and Gabrielle Joyce Nana Tato (F)
Automatic learning of piloting behavior from flight data

T4:#32
Massimo Pietracupa, Hamdi Ben Abdessalem and Claude Frasson (F)
An Approach to Automatic Flight Deviation Detection

T4:#9
Zhaoxing Li, Lei Shi, Yunzhan Zhou and Jindi Wang (S)
Towards Student Behaviour Simulation: A Decision Transformer based Approach

13.00 - 13.30

CLOSING SESSION AND BEST PAPER AWARDS

ACCESS TO THE SESSION

** NOTE
Duration of the Full paper (F) presentation is 25 minutes + 5 minutes for QA
Duration of the Short paper (S) presentation is 15 minutes + 5 minutes for QA

*Onsite presentation