



Final Program International Symposium on Generative AI and Education

May 15-16, 2025

Malaga, Spain

Hybrid Symposium: In-person and Virtual

Technically co-sponsored by



Springer



Welcome to ISGAIE 2025

It is with great pleasure to welcome you to The International Symposium on Generative AI and Education (ISGAIE'2025). The symposium will be held from May 15th to 16th, 2025 in Faculty of Philosophy and Arts, Malaga.

Highlights

1. **Welcome Message**
2. **Organizing Committee**
3. **TPC Members**
4. **Keynote Speakers**
5. **Program Itinerary**
6. **About Malaga**

This symposium explores the transformative potential of ChatGPT tools within education, shedding light on the opportunities that arise through the integration of ChatGPT tools into various aspects of the learning process. It serves as a platform for the community to share cutting-edge research ideas concerning the use of the ChatGPT tool in digital education. Participants will discover how ChatGPT tools can enhance student engagement, foster personalized learning experiences, facilitate intelligent tutoring systems, support virtual classroom interactions, and revolutionize assessment and feedback mechanisms.

ISGAIE'2025 is a symposium focusing on the challenges and the future implications of the large language models in education, discussing emerging trends, potential advancements, and their impact on teaching, learning, and institutional practices. It also explores the ethical considerations and social implications associated with the use of large language models in education.

We are honored to organize ISGAIE 2025 in Malaga, Faculty of Philosophy and Arts, and we are looking forward to your contributions to the continued success of the symposium!

Rubén Gonzalez Vallejo

Universidad de Malaga, Espana

Mohamed Lahby

Hassan II University of Casablanca, Morocco

ISGAIE 2025 General Chairs

ISGAIE features very strong technical program in the area of Generative AI and Education.

ISGAIE Organizing Committee

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Mohamed Lahby (Hassan II University of Casablanca, Morocco)

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Razane Chroqui, Sultan Moulay Slimane University, Morocco
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Saadane Rachid, EHTP, Casablanca, Morocco
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Soufiane Ouariach, Abdelmalek Essaadi University, Morocco
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Weizhi Meng Technical University of Denmark, Denmark
Younes ASIMI, Ibn Zohr University, Agadir, Morocco

Keynote Speakers



Dr. Robertas Damaševičius,
Kaunas University of Technology,
Lithuanian

Biography: Prof. Dr. Robertas Damaševičius is a distinguished professor with extensive expertise in computer science, artificial intelligence, and software engineering. His research interests encompass a broad range, including machine learning, deep learning, medical imaging and computer vision. He has authored numerous high-impact publications and led interdisciplinary research projects. His work focuses on innovative AI applications across diverse fields, including healthcare and environmental science. Prof. Damaševičius is known for his multidisciplinary approach, fostering collaborations that enhance software reliability, optimize AI-driven solutions, and advance data mining methodologies in scientific and industrial contexts. His contributions continue to drive advancements in technology for societal benefit.

More info about Dr. Robertas Damaševičius activities and publications can be found in the link below:

[Dr. Robertas Damaševičius](#)

Title: Designing Engaging Digital Escape Rooms for STEM Education: The Role of Generative AI



Dr. Elisa Schaeffer
School Collège LaSalle
Montréal Quebec, Canada

Biography: Dr. Elisa Schaeffer (<https://orcid.org/0000-0001-6300-7208>) is an Associate Professor of Applied Digital Intelligence and the Academic Director of Technology and Innovation at the McGill School of Continuing Studies. She has a keen interest in computational intelligence, and her research jumps around the potential applications of graph theory and machine learning, touching areas such as social sciences, medicine, economics, and forestry. She is passionate about digital learning, real-time and asynchronous, and an early adopter of emerging software and hardware solutions to facilitate teaching and research, especially open-source solutions

More info about Dr. Elisa Schaeffer activities and publications can be found in the link below:

[Dr. Elisa Schaeffer](#)

Title: Reducing the Digital Carbon Footprint of GenAI in Education



Dr. Muhammad Mujtaba Asad

Sukkur IBA University
Pakistan

Biography: Dr. Muhammad Mujtaba Asad is serving as an Assistant Professor and Lead Researcher of Educational Technologies and TVET Research Group at Sukkur IBA University. Dr. Mujtaba has national and international working experience of more than 10 years at industrial and educational sector in the domain of Educational Technologies, Work & Product-Based Education and Technical and Vocational Education. Dr. Mujtaba has published more than Sixty (60) research articles (ISI & Scopus Indexed) in reputed international journals and conferences worldwide. Also, a book related to the observational skills of competent educators under the CS publishing house USA is in his publication credit. He has also received three Gold, one Silver and one Bronze medal in international research and development completions with seven best research awards in Malaysia, Korea, Saudi Arabia, Pakistan and UAE on his commercialized projects. Moreover, Dr. Mujtaba is also an active member of Seven (7) national and international research grants. Dr. Mujtaba is also an internationally certified educational technologist (Malaysian Board of Technologist) and holds certifications and qualification in industrial safety and health education from NIOSH and OSH Department of Ontario, Canada. He is also serving as an Editorial Board Member to twelve (12) reputed and indexed international journals. Dr. Mujtaba also holds several international Copyrights and has filed one Product Patent under the title of HAZFO Expert 1.0 for Drilling Operation. He had been awarded an honorary lifetime International Ambassadorship by University Tun Hussein Onn Malaysia based on his academic achievements and community services. Dr. Mujtaba has also been awarded the title of approved PhD and MPhil/MS Supervisor by Higher Education Commission of Pakistan.

Title: Audio-Visual Flipped Classrooms: A Pathway to Improved Self-Regulated Learning



Dr. Ahmad Samer Wazan

Zayed and Toulouse
Universities

Biography: Dr. Ahmad Samer Wazan is an Associate Professor at Zayed and Toulouse Universities. His research topics include trust management, PKI, access control, OS security, security requirements engineering, and AI in education. Between 2007 and 2011, he led a research project that introduced a new trust model for the X.509 standard by incorporating an entity called the Trust Broker. This proposal was included in the 2016 edition of the X.509 standard. He also collaborated with researchers from the UK and France to implement the first proof-of-concept verifiable credential system. Recently, he conducted a research project proposing a new command, sr (switch role), to replace the sudo command in Linux environments (<https://github.com/SamerW/RootAsRole>). Furthermore, Mr. Wazan is actively working on AI integration in education. He has developed a new chatbot called Socrates Chatbot that he is using in his classroom. He has also developed a methodology to evaluate students' thinking as they use AI during exams. Mr. Wazan has published a chapter detailing his findings and recommendations for designing and delivering courses in the AI era, available here: https://link.springer.com/chapter/10.1007/978-3-031-65691-0_18

Title: How to Integrate AI into Education: Course Design, Delivery and Assessment

Program at a Glance of the International Symposium on Generative AI and Education
(ISGAIE'2025)
Malaga, Spain – May 15-16, 2025
<https://research-conf.com/isgaie25/>



PRESENTATION GUIDELINES

- All presentations should be in English.
- Each presentation is 8-10 minutes long with five (5) minutes for Q/As.
- According to Springer guidelines, any paper that is not presented will be excluded from the conference proceedings.

Date	Time	Event
Day 1 – Thursday May 15th, 2025	09:30 am – 10:00 am	Opening Ceremony Prof. Rubén Gonzalez Vallejo (Universidad de Malaga, Espana) Prof. Mohamed Lahby (UH2C, ENSC, Morocco)
	10:00 am – 11:00 am	Keynote Speaker 1 Prof. Robertas Damaševičius (Kaunas University of Technology, Lithuanian)
	11:00 am – 11:10 am	Coffee Break
	11:10 am – 01:00 pm	Session 1:Generative AI in Education: An Overview
	01:00 pm – 03:00 pm	Lunch
	03:00 pm – 04:00 pm	Keynote Speaker 2 Prof. Elisa Schaeffer (Collège LaSalle Montréal Quebec, Canada)
	04:00 pm – 04:10 pm	Coffee Break
	04:10 pm – 05:40 pm	Session 2:Personalized Learning and Intelligent Tutoring with Generative AI
	05:40 pm – 07:00 pm	Session 3:Generative AI for Educational Assessment
Day 2 – Friday, May16, 2025	09:00 am – 10:00 am	Keynote Speaker 3 Prof. Ahmad Samer Wazan (Zayed and Toulouse Universities)
	10:00 am – 10:10 am	Coffee Break
	10:10 am – 12:10pm	Session 4: Generative AI in Specialized Educational Contexts
	12:10 pm – 03:00 pm	Lunch
	03:00 pm – 04:00 pm	Keynote Speaker 4 Prof. Muhammad Mujtaba Asad (Sukkur IBA University Pakistan)
	04:00 pm – 04:10 pm	Coffee Break
	04:10 pm – 05:40 pm	Session 5: Case Studies and Practical Applications of Generative AI in Education
	05:40 pm – 07:00 pm	Session 6: Ethical considerations and Responsible Use of Generative AI
	07:00 pm-07:30 pm	Closing Ceremony

Full ISGAIE 2025 Symposium Program

Thursday, May15th, 2025

GMT+1

Time	Event
8:30 – 9:30	Registration
9:30 – 10:00	Welcome & Opening Ceremony Prof. Rubén Gonzalez Vallejo (General Chair, Universidad de Malaga, Espana) Prof. Mohamed Lahby (General Chair, Hassan 2 University Casablanca, Moroc) Meeting Link: https://us06web.zoom.us/j/81412746257?pwd=Ol6xLi4qXVLz8DIJriZLvtwybMoR9I.1
10:00 – 11:00	Keynote Speaker 1: “Designing Engaging Digital Escape Rooms for STEM Education: The Role of Generative AI” Prof. Robertas Damaševičius (Kaunas University of Technology, Lithuania) Chair: Rubén Gonzalez Vallejo (Universidad de Malaga, Espana) Link: https://us06web.zoom.us/j/81412746257?pwd=Ol6xLi4qXVLz8DIJriZLvtwybMoR9I.1
11:00 – 11:10	Coffee break
11:10 – 01:00	Online Session 1:Generative AI in Education: An Overview Session Chair : Dr. Mohamed LAHBY (ENSC, UH2C, Morocco) Link: https://us06web.zoom.us/j/81412746257?pwd=Ol6xLi4qXVLz8DIJriZLvtwybMoR9I.1 <ol style="list-style-type: none"> Toward a New Instructional Design Methodology in the Era of Generative AI (idPaper#86) Khadija HILALI(Higher School of Technology (EST), UH2C Casablanca, Morocco) Meriyem CHERGUI (National Higher School of Electricity and Mechanics (ENSEM), UH2C, Casablanca, Morocco) The Transformative Influence of Generative AI on Teaching and Learning (idPaper#53) Khulekani Mavundla (Durban University of Technology, Durban 4001, South Africa) Abdultaofeek Abayomi (Innovation and Advanced Science Research Group, Summit University, Kwara State, Nigeria) Emmanuel Adetiba (HRA, Institute for Systems Science, Durban University of Technology, South Africa) Olutoyin Olaitan (Walter Sisulu University, Eastern Cape, South Africa) Surendra Thakur (University of South Africa (UNISA), South Africa) The Adoption of Intelligent Tutoring Systems (ITS) for AcademicEducation: A Cross-Cultural Comparative Study of Moroccan and Chinese University Students (idPaper#146) Houda Louatouate, Mohammed Zerouh (The Higher School of Teachers ENS, Moulay Ismail University, Meknes, Morocco) Anas Farahi (Normal University, Changchun, Jilin, China) Higher Education Students' Perceptions of LLMs: A Questionnaire-Based Analysis of ChatGPT Usage and Concerns (idPaper#140) Hajar Makhoukhi and Sarra Roubi (SmartICT Laboratory, National School of Applied Sciences, Mohammed First University, Oujda, Morocco)

	<p>5. Exploring ChatGPT Adoption Among Teacher Educators in Higher Education: An Extended UTAUT2 Approach (idPaper#74)</p> <p><i>Baninder Rahi and Sunil K Mishra (Vivekananda School of Journalism and Mass Communication, Vivekananda Institute of Professional Studies-Technical Campus (VIPS-TC), New Delhi, India)</i> <i>Sachin Gupta (Vivekananda School of Economics, Vivekananda Institute of Professional Studies-Technical Campus (VIPS-TC), New Delhi, India)</i> <i>Radhe Krishan (Senior Media Advisor, Ministry of Ayush, Government of India)</i></p> <p>6. Preservice teachers' extent of knowledge and willingness to adopt GenAI in higher education (idPaper#21)</p> <p><i>Precious Angel M. Gapol and Ericson O. Alieto (Western Mindanao State University, Zamboanga City, 7000 Philippines)</i> <i>Elenieta A. Capacio (Zamboanga State College of Marine Sciences and Technology, 7000 Philippines), Alexandhrea Hiedie Dumagay and Christopher Iris Francisco (Western Mindanao State University, Zamboanga City, 7000 Philippines)</i> <i>Rubén González Vallejo (Universidad de Málaga, Málaga, Spain)</i></p> <p>7. Intelligent ERP Systems for Banking and Education Industry: A Review (idPaper#148)</p> <p><i>Tirumala Rao Chimpiri Independent Researcher, NY, USA</i></p> <p>8. Pedagogical Approaches and Teaching Practices in the AI Era (idPaper#119)</p> <p><i>Farhana Kausar and Goutam R (Atria Institute of Technology, Visvesvaraya Technological University, Belagavi, India)</i></p>
1:00 – 3:00	Lunch Break
3:00 – 4:00	<p>Keynote Speaker 2: “Audio-Visual Flipped Classrooms: A Pathway to Improved Self-Regulated Learning” Prof. Elisa Schaeffer (Collège LaSalle Montréal Quebec, Canada) Chair: Salim El khediri (Qassim University, Saudi Arabia) Link: https://us06web.zoom.us/j/81412746257?pwd=Ol6xLi4qXVLz8DIJriZlVtwybMoR9I.1</p>
4:00 – 4:10	Coffee break
04:10 – 5:40	<p>Online Session 2: Personalized Learning and Intelligent Tutoring with Generative AI Session Chair : Dr. JAMAL MAWANE (ENSETM, UH2C, Casablanca, Morocco) Link: https://us06web.zoom.us/j/81412746257?pwd=Ol6xLi4qXVLz8DIJriZlVtwybMoR9I.1</p> <ol style="list-style-type: none"> 1. Harnessing ChatGPT-4o for Personalized Online Learning (idPaper#69) <i>Hala EL YABOURI, Fatima-Zohra HIBBI and Otman ABDOUN (Faculty of Science, Abdelmalek Essaadi University, Tetouan, Morocco)</i> 2. Empowering Minds: The Impact of AI Tools on Personalized Learning and Cognitive Development in Diverse Educational Settings (idPaper#90) <i>Anita Yadav, Bhakti Parashar, Soumya Sankar Ghosh and Jyoti Badge (VIT Bhopal University, India)</i> 3. LLaMa-based Personalized Learning: Fine-Tuning Generative AI in Educational Recommendations (idPaper#93) <i>Luong Vuong Nguyen (Department of Artificial Intelligence, FPT University, Danang 550000, Vietnam)</i> 4. Transforming digital education: ChatGPT in personalizing learning and intelligent tutoring (idPaper#107) <i>Guillermo Alfredo Jiménez Pérez (Universidad de Matanzas, Matanzas, Cuba)</i> <i>Alfredo Javier Pérez Gamboa (Centro de Investigación en Educación, Naturaleza, Cultura e Innovación para la Amazonía, Florencia, Caquetá, Colombia)</i>

	<p>5. Bridging the Gap: Generative AI for Personalized Learning and Intelligent Tutoring (idPaper#137) <i>Farhana Kausar and Jay Prakash Kumar (Atria Institute of Technology, Visvesvaraya Technological University, Belagavi, India)</i></p> <p>6. Generative AI in reshaping Higher Education: Human Sciences Master Students at FLDM-USMBA as a case study (idPaper#9) <i>ELJAI Marwa, ELJAI Yassamine and ASMAR Khaoula (Sidi Mohamed Ben Abdellah University, Fes, Morocco)</i></p> <p>7. Generative AI in Medical Education: Personalized Learning with Deepfakes, LLMs, and RAG (idPaper#142) <i>Btissam Acim, Nassim Kharmoum and Soumia Ziti (IPSS Research Team, Faculty of Sciences, Mohammed V University in Rabat, Rabat, Morocco)</i></p>
05:40 – 7:00	<p>Online Session 3: Generative AI for Educational Assessment Session Chair : Dr. Saïd BAHASSINE (ENSAM, UH2C Casablanca, Morocco) Link: https://us06web.zoom.us/j/81412746257?pwd=Ol6xLi4qXVLz8DIJrjZLvtwybMoR9L.1</p> <p>1. Assessment in education using IA: A bibliometric analysis (idPaper#56) <i>Hayat El Yaccoubi, Ghizlane Moukhliiss, Lynda Ouchaouka and Nadia Saqri (ENS, Hassan II University of Casablanca, Morocco)</i></p> <p>2. Digital Badges and Motivation: First-Year University Students' Perceptions (idPaper#66) <i>Asmae Tayane, Azzedine Atibi, Mohamed Radid and Ghizlane Chemsî (Faculty of Sciences, Ben M'sick. Hassan II University of Casablanca, Morocco)</i></p> <p>3. ChatGPT as an assessment and feedback tool in higher education: opportunities, challenges and ethics (idPaper#106) <i>Verenice Sánchez Castillo (Universidad de la Amazonía, Florencia, Caquetá, Colombia) Emanuel José Maldonado (AG Editor, Montevideo, Uruguay)</i></p> <p>4. Enhancing E-learning Evaluation through Generative AI: Personalizing Assessment and Feedback during Learning Experience (idPaper#134) <i>Taha El Ghadraoui, Hiba Asri, and Zahi Jarir (Faculty of Sciences Semlalia, Cadi Ayyad University, Marrakesh, Morocco)</i> <i>Abdelali Rochdi (Innovative Pedagogical Center, Cadi Ayyad University, Marrakesh-Morocco)</i></p> <p>5. Evaluating Educational Content Through Virtual Student Simulations Using Large Language Models (idPaper#64) <i>EZZAKI Soukaina, MESSAOUDI Najat and KHALID NACIRI Jaafar (Faculty of Sciences Ain Chock, University Hassan II of Casablanca, Morocco)</i></p> <p>6. Predictive Learning Analytics: Leveraging Generative AI for Enhanced Academic Performance Prediction (idPaper#127) <i>Jamal Eddine Rafiq, Zakrani Abdelali and Said Nouh (Hassan II University, Casablanca, Morocco) Mohammed Amraouy (Institute of Posts and Telecommunications, Mohamed V University, Rabat, Morocco)</i></p> <p>7. Acceptance of Gamified Formative Assessment in an Inclusive Approach: The Case of Moroccan Middle School Students (idPaper#67) <i>Zineb Hamdi, Mohamed Radid, Ghizlane Chemsî and Mohammed Talbi (Faculty of Sciences, Ben M'sick. Hassan II University of Casablanca, Morocco)</i></p>

FRIDAY, May16th, 2025

09:00 – 10:00	<p>Keynote Speaker 3:“ How to Integrate AI into Education: Course Design, Delivery and Assessment”</p> <p>Prof. Ahmad Samer Wazan (Zayed and Toulouse Universities)</p> <p>Chair: Rachid SAADANE (EHTTP, Casablanca, Morocco)</p> <p>Link: https://us06web.zoom.us/j/81412746257?pwd=Ol6xLi4qXVLz8DIJriZLvtwybMoR9I.1</p>
10:00 – 10:10	Coffee break
10:10 – 12:10	<p>Online Session 4:Generative AI in Specialized Educational Contexts</p> <p>Session Chair: Razane Chroqui (Hassan First University of Settat, Morocco)</p> <p>Link: https://us06web.zoom.us/j/81412746257?pwd=Ol6xLi4qXVLz8DIJriZLvtwybMoR9I.1</p> <ol style="list-style-type: none"> <p>Harnessing Generative AI for new Education: Developing a Wisdom Intervention for Indian school students (idPaper#29)</p> <p><i>Pooja Rawat and Ankita Sharma (Indian Institute of Technology Jodhpur, India)</i></p> <p>Understanding Students' Continued Use of Generative AI in Learning: The Critical Role of Prompting Capacity (idPaper#42)</p> <p><i>Ai-Van Huynh(FPT University, Greenwich Vietnam, Ho Chi Minh campus, Ho Chi Minh City, Vietnam), Bui Thanh Khoa (Faculty of Commerce and Tourism, Industrial University of Ho Chi Minh City, Ho Chi Minh City, Vietnam)</i></p> <p>Hybridization of Animal Biologypractical work: Innovative pedagogical design through Generative Artificial Intelligence (idPaper# 145)</p> <p><i>Salma Aimara , Mohamed Radid, Ghizlane Chems, Ibtissam Nfissi , Rabab Tabiteand Mustapha Khiati (Ben M'sick Faculty of Sciences, Hassan II University, Casablanca, Morocco)</i></p> <p>An Inclusive Model for AI Skills Acquisition by Future Engineers in the Context of Industry 5.0 (idPaper#85)</p> <p><i>Nadia Chafiq (Laboratoire Mathématiques, Intelligence Artificielle et Digital Learning Ecole Normale Supérieure - ENS -UH2C, Morocco)</i></p> <p><i>Rokaya El Gounidi (Faculté des Sciences Ben M'Sick-FSBM – UH2C, Morocco)</i></p> <p><i>Sarah Juidette (School of Commerce and Management – ENCG – UH2C, Morocco)</i></p> <p>Modeling an Intelligent Educational Ecosystem for Training Logistics Entrepreneurs via AI and Data Science(idPaper# 141)</p> <p><i>Mustapha KHIATI (Faculty of Sciences Ben M'Sick, Hassan II University of Casablanca , Morocco); Samia JIRARI (FSJES, Cadi Ayyad University of Marrakech, Morocco)</i></p> <p><i>Olaya METWALLI (FEG, Hassan First University of Settat, Morocco)</i></p> <p><i>Najat RAFI, Adil KARIM (Faculty of Sciences Ben M'Scik, Hassan II University of Casablanca, Morocco); Marouane MKIK (Higher Institutes of Nursing and Health Techniques of Rabat , Morocco); Omar TANANE (Faculty of Sciences Ben M'Scik, Hassan II University of Casablanca, Morocco)</i></p> <p>Islamic Education Learning Outcome: A Comparative Study of Virtual TeachingAssistants Powered by Generative AI Versus TraditionalTeacher-Led Instruction (idPaper#59)</p> <p><i>Wirda Ningsih, and M. Zalisman (STAI Al-Kifayah Riau, Jalan Uka, Pekanbaru, Indonesia)</i></p>

	<p>Mohamed Lahby (Hassan II University of Casablanca, Morocco) Yundri Akhyar and Mas'ud Zein (Universitas Islam Negeri Sultan Syarif Kasim Riau, Pekanbaru, Indonesia)</p> <p>7. AI-Powered EMI Classroom: Enhancing Academic Understanding and Engagement (idPaper#87)</p> <p>Razane Chroqui (Hassan First University of Settat, National School of Applied Sciences, Interdisciplinary Laboratory of Applied Sciences, Morocco)</p>
12:10 – 3:00	Lunch Break
03:00 – 4:00	<p>Keynote Speaker 4: “Reducing the Digital Carbon Footprint of GenAI in Education”</p> <p>Prof. Elisa Schaeffer (Collège LaSalle Montréal Quebec, Canada) Chair: Prof. Vasileios Paliktzoglou (Bahrain Polytechnic, Bahrain) Link: https://us06web.zoom.us/j/81412746257?pwd=Ol6xLi4qXVLz8DIJriZLvtwybMoR9I.1</p>
04:00 – 04:10	Coffee break
4:10 – 6:00	<p>Online Session 5: Case Studies and Practical Applications of Generative AI in Education</p> <p>Session Chair: Mustapha KHIATI (Hassan II University of Casablanca, Morocco); Link: https://us06web.zoom.us/j/81412746257?pwd=Ol6xLi4qXVLz8DIJriZLvtwybMoR9I.1</p> <ol style="list-style-type: none"> Data migration from Symphony to Koha: Hassan II University experience (idPaper#6) Samia AL FALLAH (Sekkati University Library, Hassan II University of Casablanca, Morocco); Khalid LAHYANI (ENSAM, Hassan II University of Casablanca, Morocco) Beyond Automation: Generative Artificial Intelligence and the Evolution of Knowledge Management for Educational Impact (idPaper#75) Mai Van Duy (FPT University, Ha Noi, Vietnam); Bui Thanh Khoa (Faculty of Commerce and Tourism, Industrial University of Ho Chi Minh City, Ho Chi Minh City, Vietnam) Automated Question Generation with AI: Enhancing Educational Systems Using LLMs at Cadi Ayyad University and UniDistance Switzerland (idPaper#115) Hiba Asri (Faculty of Sciences Semlalia-Cadi Ayyad University, Marrakesh, Morocco) Henrietta Carbonel and Jean Michel Julien (Educational Development Unit in Distance Learning (EDUDL+ Unit), UniDistance Suisse, Brig-Switzerland) Abdelali Rochdi (Innovative Pedagogical Center, Cadi Ayyad University, Marrakesh, Morocco) Evaluating ChatGPT and DeepSeek for Science Education: A Comparative Analysis of AI-Powered Learning Assistants (idPaper#132) Aadil Bouchra, Khai Hanane and Lahby Mohamed (Laboratory of Mathematics, artificial Intelligence and Digital Learning MINDLab, Higher Normal School, Hassan II University of Casablanca, Morocco) Modeling Sustainable Production Systems and Ecological Transition: The Key Role of Education Based on AI in the Green Economy (idPaper#151) Mustapha KHIATI (Faculty of Sciences Ben M'Scik, Hassan II University of Casablanca, Morocco); Aicha ELALAOUI and Ayoub LAATOR (FEG, Sultan Moulay Slimane–Morocco); Abdelmouneim MAJD (FSJES, Cadi Ayyad University of Marrakech – Morocco) Marouane MKIK (Higher Institutes of Nursing and Health Techniques– Morocco) Omar TANANE and Imane EL IMADI (Faculty of Sciences Ben M'Scik, Hassan II University of Casablanca, Morocco)

	<p>6. Entrepreneurship and financial literacy through ChatGPT: educational innovation in virtual learning environments (idPaper#105) <i>Carlos Alberto Gómez Cano (Corporación Universitaria Asturias, Bogotá, Colombia) and Rolando Eslava Zapata (Universidad Libre de Colombia, Cúcuta, Colombia)</i></p> <p>7. What Role Can AI Play in Identifying Struggling Students on Online Learning Platforms in Higher Education? (idPaper#45) <i>Gizlane Moukhliiss (ENS Casablanca, Hassan II University of Casablanca, Morocco) Najat Messaoudi and Jaafar K.Naciri (Faculty of Sciences Ain Chock, Hassan II University of Casablanca, Morocco)</i></p>
6:00 – 7:00	<p>Online Session 6: Ethical considerations and Responsible Use of Generative AI Session Chair: Dr. Karim DARBAN (ENCG, UH2C Casablanca, Morocco) Link: https://us06web.zoom.us/j/81412746257?pwd=Ol6xLi4qXVLz8DIJriZLvtwybMoR9I.1</p> <p>1. Questioning the Narrative of Generative AI and the Metaverse in Education: A Mixed-Methods Study of Moroccan Teachers' Perceptions and Behavioural Intentions (idPaper#8) <i>Nouh ALAOUI MHAMDI (Sidi Mohamed Ben Abdellah University Faculty of Letters and Human Sciences Dhar Mahraz – Fez, Morocco)</i></p> <p>2. Leveraging Keystroke Dynamics to Detect Identity Fraud and AI-Driven Cheating in Online Education (idPaper#18) <i>Jaha Farida, Kartit Ali and Fertat mohamed (ENSAJ, Chouaïb Doukkali University, El Jadida, Morocco)</i></p> <p>3. Attitude toward Artificial Intelligence among Teacher Aspirants in an Emerging AI Landscape: A Gender-Based Analysis (idPaper#22) <i>Ericson O. Alieto, Alexandhrea Hiedie Dumagay and Elmer M. Labad (Western Mindanao State University, Zamboanga City, 7000 Philippines); Jay Rodel C. Serdenia (Zamboanga Peninsula Polytechnic State University, Zamboanga City, 7000 Philippines) ; Sharon K. Ga lang (Centro Escolar University, Manila, Philippines) ; Rubén González Vallejo (Universidad de Málaga, Málaga, Spain)</i></p> <p>4. Gender and Educational Attainment Dynamics on Artificial Intelligence (idPaper#27) <i>Judith Maghanoy, Maisora Tahlil and Josephine Sulasu la (Zamboanga Peninsula Polytechnic State University, 7000 Philippines); Rubén González Vallejo (2Universidad de Málaga, Spain); Alexandhrea Hiedie Dumagay and Ericson O. Alieto (Western Mindanao State University, Zamboanga City, 7000 Philippines)</i></p>
7:00	<p>Closing Ceremony https://us06web.zoom.us/j/81412746257?pwd=Ol6xLi4qXVLz8DIJriZLvtwybMoR9I.1</p>

About Malaga



Malaga is a municipality of Spain, capital of the Province of Málaga, in the autonomous community of Andalusia. With a population of 591,637 in 2024, it is the second-most populous city in Andalusia and the sixth most populous in the country. It lies in Southern Iberia on the Costa del Sol ("Coast of the Sun") of the Mediterranean, primarily in the left bank of the Guadalhorce. The urban core originally developed in the space between the Gibralfaro Hill and the Guadalmedina.

Málaga's history spans about 2,800 years, making it one of the oldest continuously inhabited cities in Western Europe. According to most scholars, it was founded about 770 BC by the Phoenicians from Tyre as Malaka. From the 6th century BC the city was under the hegemony of Ancient Carthage, and from 218 BC, it was under Roman rule, economically prospering owing to garum production. In the 8th century, after a period of Visigothic and Byzantine rule, it was placed under Islamic rule. In 1487, the Crown of Castile gained control in the midst of the Granada War. In the 19th century, the city underwent a period of industrialisation followed by a decay in all socioeconomic parameters in the last third of the century.

The most important business sectors in Málaga are tourism, construction and technology services, but other sectors such as transportation and logistics are beginning to expand. Málaga has consolidated as a tech hub, with companies mainly concentrated in the MálagaTechPark (Technology Park of Andalusia). It hosts the headquarters of the region's largest bank, Unicaja, and it is the fourth-ranking city in Spain in terms of economic activity behind Madrid, Barcelona and Valencia. Regarding transportation, Málaga is served by the Málaga–Costa del Sol Airport and the Port of Málaga, and the city was connected to the high-speed railway network in 2007.

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