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ÉCOLE SUPÉRIEURE DE L'ÉDUCATION ET DE LA FORMATION - OUJDA



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جامعة محمد السادس بوجدة
UNIVERSITÉ MOHAMMED PREMIER OUJDA
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4th INTERNATIONAL CONFERENCE Education and Environment ICEE 2025

HYBRID Mode (Physical and virtual)

TECHNICAL PROGRAM

December 10 and 11, 2025

ESEF, Mohammed First University Oujda - Morocco

<https://icee2025.sciencesconf.org>

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The **Higher School of Education and Training** and **Hanns Seidel Stiftung**, in collaboration with the **Green Initiatives Center** and **EHEI School of Engineering**, are organizing the:

4th **I**nternational **C**onference on **E**ducation and **E**nvironment “**ICEE'25**”

Context:

Environmental challenges continue to intensify worldwide, affecting ecosystems, human well-being, and the balance between development and sustainability. Climate change, pollution, biodiversity loss, resource depletion, and unsustainable consumption patterns are reshaping our shared future. These issues are deeply interconnected and stem from complex social, economic, and technological dynamics. Addressing them requires not only scientific and technical solutions but also a profound transformation in education, awareness, and community engagement.

In this perspective, the International Conference on Education and the Environment (**ICEE'25**) offers a space for researchers, educators, practitioners, and policymakers to reflect on innovative strategies for building a sustainable future. The conference aims to highlight the critical role of education, technology, and civic responsibility in fostering environmental stewardship and advancing the Sustainable Development Goals (SDGs).

ICEE'25 will focus on six key tracks:

- **Track 1: Innovation and Green Education (SDGs 4, 9, 13, 15, 16)**

Green education plays a central role in developing ecological literacy and preparing learners to understand, evaluate, and act on environmental challenges. This track explores new pedagogical approaches, experiential learning in natural settings, game-based learning, teacher training for sustainable education, and the integration of equity and inclusion in green learning environments. It also examines the role of civic and legal education in promoting environmental justice.

- **Track 2: Artificial Intelligence and Sustainability Education (SDGs 4, 9, 13, 16)**

Artificial intelligence offers unprecedented opportunities to enhance sustainability education. This track focuses on AI-powered personalized learning, climate forecasting tools, environmental data modeling, and ethical considerations surrounding AI in educational contexts. It also emphasizes the potential of AI to support accessibility and inclusive green learning.

- **Track 3: Emerging Technologies and Digital Transformation in Education (SDGs 4, 7, 8, 9, 13, 15)**

Rapid technological advancements are transforming the way education is delivered and experienced. This track addresses immersive learning technologies such as AR/VR/XR, green digital skills, open educational platforms, smart and energy-efficient school environments, and the role of EdTech in climate change mitigation. It also explores the use of IoT and citizen science tools, as well as blockchain applications for transparency and sustainability education.

- **Track 4: Education and Sustainable Development Goals (SDGs 4, 11, 12, 13, 16, 17)**

Achieving the SDGs requires strong educational foundations that empower individuals and communities to engage in sustainable practices. This track examines education's contribution to sustainable cities, responsible consumption, global partnerships, ecological citizenship, and climate action. It also focuses on evaluating the impact of educational policies and programs on sustainability outcomes.

- **Track 5: Ethics, Sustainable Communities, and Environmental Justice (SDGs 4, 11, 12, 13, 16, 17)**

Ethics and community values form the backbone of a sustainable society. This track highlights environmental ethics in teaching practices, sustainable lifestyles, indigenous ecological knowledge, community-led sustainability initiatives, and green tourism for local development. It also explores participatory research and co-learning approaches that engage communities in building sustainable futures.

- **Track 6: Communication, Media, and Green Education (SDGs 4, 12, 13, 17)**

Communication plays a crucial role in shaping environmental awareness and motivating action. This track focuses on science communication, green media strategies, social networks for youth engagement, media literacy for climate responsibility, and the use of storytelling, creativity, and art to promote ecological understanding. Strategic communication for sustainability education is also highlighted as a key driver for change.

Committees

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General Chair

Kamal Hirech	Higher School of Education and Training, Mohammed First University, Oujda, Morocco
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Saman Abdulqadir Hussein Dizayi	Erbil Polytechnic University, Iraq
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Youssef El Ouardi	LUT University, Finland
Youssef Elamine	University of Coimbra, Portugal

Keynote Speakers



Prof. Giambattista Bufalino

University of Catania
Catania, Italy

Keynote Title:

Walking As an Educational Practice: Re-Inhabiting Place Through Ecological Attunement



Prof. Kettani Houssain

Al Akhawayn University
Ifrane, Morocco

Keynote Title:

The Age of AI And Emerging Issues in Higher Education



Prof. Samuel Heinzen

Pädagogische Hochschule Freiburg
Freiburg, Switzerland

Keynote Title:

Les Figures Paradigmatiques Des Modèles De Durabilités Ou Comment Dépasser Nos Biais Cognitifs Et Intégrer Nos Incertitudes

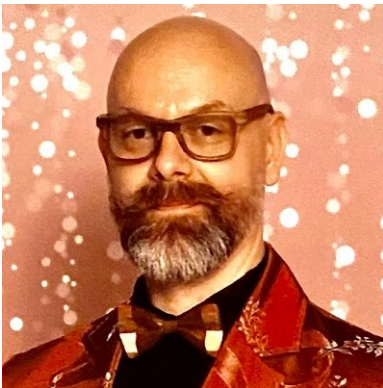


Prof. Latifa Oumouzoune

The International Organization for Marine Organization IALA
Saint-Germain-en-Laye, France

Keynote Title:

Education as a Catalyst for Maritime Safety: The IALA Model for Sustainable Capacity Building



Dr. Rock Finale

Polytechnic of Rijeka
Rijeka, Croatia

Keynote Title:

Ecta Approach to Teaching Environmental Content Through Visual Arts



Prof. Karima Gouaich

Aix Marseille Université
Marseille, France

Keynote Title:

L'inclusion des langues des élèves plurilingues dans l'enseignement du français : un levier pour la durabilité éducative

Conference Program

Wednesday, December 10			
8h45 – 9h30	Welcome of the Participants		
9h30 – 10h00	Opening Ceremony Prof. Yassine Zaghloul President of Mohammed First University, Oujda Dr. Mounir Azzaoui Regional Delegate of Morocco-Mauritania, Hanns Seidel Stiftung Prof. Mohammed Belouchi Interim Director of the Higher School of Education and Training, Oujda, Morocco Prof. Kamal Hirech Representative of the Organizing Committee		
10h00 – 10h30	Coffee Break		
10h30 – 12h00	Keynote 1 Walking As an Educational Practice: Re-Inhabiting Place Through Ecological Attunement Prof. Giambattista Bufalino University of Catania, Catania, Italy Moderator: Prof. Wiam Boutayeb		
	Keynote 2 The Age of AI And Emerging Issues in Higher Education Prof. Kettani Houssain Al Akhawayn University, Ifrane, Morocco Moderator: Prof. Wiam Boutayeb		
	Keynote 3 Les Figures Paradigmatiques Des Modèles De Durabilités Ou Comment Dépasse Nos Biais Cognitifs et Intégrer Nos Incertitudes Prof. Samuel Heinzen Pädagogische Hochschule Freiburg, Freiburg, Switzerland Moderator: Prof. Wiam Boutayeb		
12h00 – 14h00	Session 1-P (In Person)		
	Session Chairs: Prof. Sanae Dahbi Prof. Hanae Azzaoui		
	Oral (Online)		
	Session 1-O	Session 2-O	Session 3-O
	Session Chairs: Prof. Mohamed El Massaoudi Prof. Hammadi El Farissi	Session Chairs: Prof. Ilias Atmane Prof. Zakariae Bouazzaoui	Session Chairs: Prof. Mansouri Farid Prof. Allai Larbi
14h00 – 15h30	Lunch		
15h30 – 16h30	Keynote 4 L'inclusion des langues des élèves plurilingues dans l'enseignement du français : un levier pour la durabilité éducative Prof. Karima Gouaich INSPE, Aix Marseille University, Marseille, France Moderator: Prof. Mohammed Atmani		
	Keynote 5 From Soil to Table: The Impact of Contaminants in Plants and Animals on Human Health Prof. Latifa Oumouzoune The International Organization for Marine Organization IALA, Saint-Germain-en-Laye, France Moderator: Prof. Mohammed Atmani		
16h30 – 17h00	Coffee Break		

17h00 – 18h30	Session 2-P (In Person)		
	Session Chairs: Prof. Siham Benmessaoud Prof. Taha Hajar		
	Oral (Online)		
	Session 4-O	Session 5-O	Session 6-O
	Session Chairs: Prof. Hachmi Ali Prof. Benouda Hanane	Session Chairs: Prof. Mohammed Karrouchi Prof. Firyal Farid Latrache	Session Chairs: Prof. Ali Toubaghi Prof. Jaouad Benhamou

Thursday, December 11

9h30 – 10h00	Keynote 6 Ecta Approach to Teaching Environmental Content Through Visual Arts Dr. Rock Finale Polytechnic of Rijeka, Rijeka, Croatia Moderator: Prof. Wiam Boutayeb		
10h00 – 10h30	Coffee Break		
10h30 – 12h30	Session 3-P		
	Session Chairs: Prof. Abdelkader Hammaoui Prof. Mohammed Atmani		
	Oral (Online)		
	Session 7-O	Session 8-O	Session 9-O
	Session Chairs: Prof. Zouhair Boughadi Ms. Samia Boutahri	Session Chairs: Prof. Mostafa El Ouariachi Prof. Reda Korikache	Session Chairs: Prof. Mustapha Melhaoui Prof. Imad Mouhib
12h30 – 14h00	Lunch		
14h00 – 15h00	Closing Ceremony		

In Person Oral Sessions (P)

Wednesday, December 10 (Morning) Sessions 1-P (11h30 – 13h30)

Main Author	Title	Co-Authors
Abdelkader Hammaoui	The Psychological Impact of Chatbot-Generated Communication in Education for Sustainable Development: A Comparative Study Between ChatGPT and DeepSeek	
Lu Ann	Soccer ABC: Solution-Oriented Climate Change Education to Reduce Anxiety and Build Agency with Children	Risch Björn
Gannoun Ibtissem	Malnutrition Infantile Et Achèvement Du Secondaire Inférieur : Analyse Non Linéaire Et Spatio-Temporelle En Afrique Subsaharienne	Argoubi Mejdi
Houbban Nisrine	La Psychologie Positive Et L'Éducation Inclusive Dans L'Enseignement Des Langues : Un Levier Pour Une École De Qualité Durable Et Équitable	
Debbouza Ikram	Service Learning for Sustainability: Investigating the Relationship Between YRE and Students Skills and Environmental Awareness	Derraz Naoual, Jelloul Marouane
Ayari Chaima	Le Design Écologique Comme Médiateur d'une Éducation Verte : Technologies, Sensibilité Et Conscience Environnementale	

Wednesday, December 10 (Afternoon) Sessions 2-P (16h00 – 18h00)

Main Author	Title	Co-Authors
Toubaghi Ali	Marocanité, Africanité Et Humanité : Trois Paradigmes, À Portée Axiologique, À Ancrer Chez Les Futurs Enseignants De La Génération Alpha Au Maroc.	
Boubcheur Hanane	From Exclusion to Inclusion: Teaching Mathematics To Deaf Students in Public Secondary Schools in Morocco's Oriental Region - Challenges and Digital Pathways Towards SDG 4	El Madhi Youssef, Sfouli Hassan
Gaye Idrissa	Évaluation De La Pertinence Pédagogique Et De La Durabilité Des E-Tp Basés Sur Le Low-Tech À L'Udidt	Seck Mouhamadoune, Sy Abdoulaye
Ourarhi Chaymae	Transformative Ecological Futures: Integrating Indigenous Knowledge and Social Equity in Morocco's Green Transition	Mrah Isam
El Alami Fatima Zohra	Rethinking Ecological Identity Through Humanities and Reconstructed Education	
Khair Tariq	Urban Heat Island Analysis for Educational Awareness: A Comparative Study Between University Campus and Peri-Urban Climate in Oujda, Morocco	Admi Youssef, Mezrhab Ahmed

Thursday, December 11 (Morning)

Sessions 3-P (11h00 – 13h00)

Main Author	Title	Co-Authors
Kissi Imane	Green Education as a Tool for an Environmental Awareness Among University Students	Hirech Kamal
Abellaoui Saida	Morocco's Learning Cities: Education And Collaborative Innovation to Preserve Territorial Identity	
Loupas Efstathios	Evaluation Of Secondary Education Teacher's Knowledge, Attitudes, And Behaviors in Greek Schools: The Case of Environmental Education and Education for Sustainable Development and Their Connection to the 17 Sustainable Development Goals	
Malki Noureddine	Changement Climatique Et Variation Linguistique : Analyse Lexico-Sémantique Des Néologismes	
Safae Guerbaoui	Morocco facing natural disasters: education, prevention and sustainable development	Abdelkader Sbai
Et-Tauri Abdelkader	Didactic Study of The Wheatstone Bridge: Integrating Theory, Numeric Simulation, Arduino Experimentation, And Augmented Reality (AR)	Hbibbi Mohammed, Boussetta Reda, Mommadi Omar, El Moussaouy Abdelaziz, Laabidi Khalid

Online Oral Sessions (O)

Wednesday, December 10 (Morning) Sessions 1,2,3 and 4 (11h30 – 13h30)

Session 1-O

Main Author	Title	Co-Authors
Kallal Rahim	Public Educational Spending And Economic Growth In The Mena Region: A Panel Ardl Approach	Trabelsi Salwa
Essadik Emna	Assessing The Impact Of The Gender Gap In Education And ICT On Climate Change	Rahim Kallal
Zia Samavia	Navigating Education For Sustainability: Advancing Environmental SDGs Through Critical Pedagogy And Ecological Literacy	
Tarhi Ismail	Integrating Smartphone Technologies And Traditional Methods In Physics Education For Sustainable And Innovative Learning	Hassouni Taoufik, Al Ibrahmi El Mehdi
Ajerrar Yousra	Automatic Text Summarization: A Technological Lever For Pedagogical Innovation In Environmental Education And Sustainable Development	
Ávila García Guillermina	Sustainable Innovation With "Tabizarros": An Interdisciplinary High School Experience In Mexico	
Olatunji Olutayo	Awareness, Usage And Influence Of Social Media Platforms On Learning Effectiveness In Selected Public And Private Schools In Ogun State, Nigeria	
Allaoui Abdelilah	Responsabiliser Les Élèves Comme Acteurs Du Changement Pour La Durabilité Environnementale : Leçons Tirées Des Lycées Marocains	Mansoureddine Abdelhakim
Chowdhury Asma	Women In Bangladeshi Art Institutions: Understanding Gender Representation And Empowerment	Masroor Imtiaz, Ud-Daula Asaf

Session 2-O

Main Author	Title	Co-Authors
Adewale Peter Sanjo	Do Green Schools Make Green Students? Assessing The Multi-Level Impact Of Carbon Footprint Reduction Initiatives	
Basilio Ritchie	Pioneering The Early Integration Of Data Analytics In Junior High Mathematics: A Work-In-Progress Study On Grade 10 Statistics And Probability	

Jayakody Asha	The Utilization Of Simulations- Based Learning To Enhance Disaster Management And English Language Communication In Sri Lankan Universities.	
Fazli M K Nedha	Social Adjustment And Educational Inclusion Among Migrants: A Case Study Of Island Communities From Lakshadweep In Kerala	
Agaton Casper	Utilization Of Generative Artificial Intelligence In Human Ecology Education, Opportunities, Challenges, And Ways Forward	Langit Ericka Renee A., Sabo-O Aaron Joseph M., Loren Dayniele D., Malvar Ma. Denise Efel B., Legaspi Jimwell V.
Assadiki Redouan	Deploying A "Green University" In Morocco: A Case Of International University Of Rabat	Fouzi Belmir
Grosseck Gabriela	Digital Assessment With Genai: Balancing Sustainability, Integrity, And Student Well-Being	Dumbraveanu Roza, Balmus Olga
Hannoun Meriyam	Educational Interventions For Enhancing Children's Psychosocial Well-Being After The Al Haouz Earthquake: An Approach Linking SDG 3 And SDG 13	Benksim Abdelhafid, El Harssi El Mahjoub, Cherkaoui Mohamed
Umar Khan	Teacher Leadership Role In Climate Change Education	

Session 3-O

Main Author	Title	Co-Authors
Benelrhali Azeddine	Bridging Geometry And Innovation: Enhancing Spatial Reasoning Through Computational Thinking And Visual Programming For Sustainable Development Goal-Focused Learning	Berrada Khalid
Benelrhali Azeddine	Harnessing Interpretable Transformer Models For Gender-Based Feature Analysis And Sustainability In Computational Thinking Education	Berrada Khalid
Bou-Laouz Imane	Éducation Numérique Et Objectif De Développement Durable 4 : Analyse Critique Des Défis Et Opportunités Dans Le Contexte Marocain	
Haribou Nissrine	Le Droit De L'Environnement Comme Pédagogie De La Durabilité : Enjeux Et Perspectives Au Maroc	Nfissi Kawtar
Okwori Robert	Artificial Intelligence And Sustainable Vocational Education	
El Hadri Mohamed	Education And Sustainable Development From The Beginnings To The 2030 Agenda: A Historical And Comparative Analysis Of International And Moroccan Measures	Ait Aghzzaf Ahmed, Cherai Bouamama, Lahlali Abdelouahed
Zraiouil Asmaa	Integrating Digital Technologies Into Environmental Education: A Qualitative Study Of The Impact Of Digital Tools On Learner Engagement In Higher Education In Morocco	El Ayachi Hiba, Juidette Sarah
Ennakhlaoui Asmaa	La Classe Inversée Et Google Classroom : Proposition d'un Modèle Pédagogique Pour Remobiliser Les Élèves En Difficulté En Informatique	Hasnaoui Moulay Lahcen

El Hadri Mohamed	School Clubs As A Suitable Environment To Promote Innovation And Green Education For Sustainable Development: A Quasi-Experimental Study	Ait Aghzzaf Ahmed, Cherai Bouamama, Lahlali Abdelouahed
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Wednesday, December 10 (Afternoon)

Sessions 5,6,7 and 8 (16h00 – 18h00)

Session 4-O

Main Author	Title	Co-Authors
Idbabou Asma	Education For Sustainable Development And The Influence Of Sociocultural Context On Students' Representations Of Biodiversity	El Kheyyat Houda, Alami Anouar
Philippe Nsabimana	Politique de l'éducation inclusive au Burundi et au Maroc : analyse comparative	Youssef Nait Belaid
Chirinos Marroquín Maritza	Gamification And Green Education: Engagement Methodologies To Promote Energy Efficiency In Universities	Martínez-Mogrovejo Jesús-Jean, Alatrística-Corrales Arturo, Coaquira-Flores Angel Jeancarlo, Solis-Perez Sahori-Estefanni, Valdivia-Chirinos Verónica-Guadalupe
Beloy Jay-Ar	Improving Students' Problem-Solving Skills Through Ai-Supported Comparative Reflection Using Polya's Four-Step Approach	Valera Edsel, Evangelista Ian Piolo, Garcia Jian Carlo, Gayeta Norrie
Martoredjo Nikodemus Thomas	Increasing Learning Motivation And Creativity By Using Artificial Intelligence Technology To Support Sustainable Education.	
Rabiai Hamza	Investigating Artificial Intelligence's Potential To Improve Higher Education Student's Motivation And Cognitive Development	Khali Issa Sanae, El Fassi Kaouthar
Britel Najlae	The Impact Of Environmental Education On Household Water Consumption	El Hassouni Soumaya
Souaby Somia	The Role of Digital Tools In Enhancing Environmental Awareness Among Students	Naim Pr Hafida
Beloy Jay-Ar	Trighex: Gamification Of Product And Quotient Identities Of Six Trigonometric Ratios For Classroom Instruction	Espinosa Janine Andrea, Gadon Jasper, Manalon Analou, Manato Dhailaine Kiem

Session 5-O

Main Author	Title	Co-Authors
El Anouar El Mustapha	The Learning Autonomy Offered By Artificial Intel-Ligence And Its Effect On The Personalization Of Learning Among Moroccan Students	El Adnani Mohamed Jallal
Adaliou Abdelhamid	Innovative Teaching Approaches For Renewable Energy Education	El Ouariachi Mostafa, Hirech Kamal
Turki Wouroud	Adoption Of Artificial Intelligence In Tunisian Higher Education: Perceptions, Uses, And Perspectives.	Hadj Taieb Amine

Ali Dr. Md. Hasan	Artificial Intelligence And Sustainability Education In Bangladesh: Prospects And Challenges	
Skri Yassir	Phygital Learning Ecosystems: A Conceptual Framework For The Decentralized Manufacturing Of Pedagogical Tools In The Era Of Digital Transformation	Mousaid Ilyass, Ennawaoui Amine
Islam Nabila	Ai-Driven Sustainability Education And Environmental Responsibility In Bangladesh: Understanding Green Consumption Behavior Through The Theory Of Planned Behavior	Misbah Hanim
Imran Zahoor	Floods, Displacement, And Learning Loss: Assessing The Educational Impact Of Climate Change In Rajanpur	Khalid Dr. Iram
Djerad Meriam	Développer L'Intelligence Spatiale Écologique (Isé) À Travers Le Modèle Espaces Comme Cadre Pédagogique Pour La Formation En Design Espace	Kammoun Sonda
Omgba Owono Fridolin	L'École Camerounaise Face Aux Défis Du Développement Durable (2001-2025) : Entre Ambitions Politiques Et Réalités Pédagogiques	

Session 6-O

Main Author	Title	Co-Authors
Abdessamad Bentouhami	Évaluer Et Réduire L'Impact Environnemental Des Matériaux Dans Le Domaine De L'Ingénierie Vers Une Approche Éducative Et Durable	
Grine Yousra	L'Intelligence Artificielle Au Service D'Un Enseignement À Distance Durable Et Inclusif : Enjeux Et Perspectives Pour Une Éducation De Qualité (ODD 4)	
Abdessamad Bentouhami	Pedagogical Innovation For Sustainable Education: Integrating Eco-Materials In Science Teaching	
Nouri Malek	Apprentissage Informel Du Design Durable : Une Étude Qualitative Sur L'Intégration Des Principes Durables Via Les Médias Sociaux	
Joseph Nankyer Sarah	Bridging The Digital Divide: Emerging Technologies And Digital Transformation In Nigerian Higher Education	
Meriem Harabi	Bridging The Gap: A Green Edtech Framework For Sustainable AI In Education	
Bousbaa Chorouk	Innovative And Experiential Pedagogies In Sustainability Education: A Case Study Of Morocco's Green Gateway Training Of Trainers Program	Boukherouk Mohamed
Maghrebi Sirine	Les Représentations Du Changement Climatique Chez Les Élèves Du Secondaire Tunisien	
Nisa Shafiq	Digital Innovation And Green Learning: A Pathway To Sustainable Development In Pakistan	

Thursday, December 11 (Morning)

Sessions 9,10,11 and 12 (11h00 – 13h00)

Session 7-O

Main Author	Title	Co-Authors
Ouhsine Omar	Assessing Student Environmental Awareness And School Club Involvement In Waste Characterization: A Case Study Of Moroccan High Schools.	Ouigmane Abdellah, Berkani Mohamed, Ouhsine Zakaria
Dridi Nejia	Education À L'Alimentation Durable Dans L'École Tunisienne: Analyse Des Attributs Et Des Pratiques Des Enseignants Du Secondaire.	
Houda Kohli Kallel	Éduquer À L'Environnement Par Le Design Patrimonial : Innovation Pédagogique Et Développement Durable	
Devkota Hari	Flipped Classroom Laboratory	Tantayanon Dr. Supawan
Lisbo Kenneth	Justice, Recognition, And Responsibility: Understanding Youth Climate Advocacy Through Schlosberg And Young In The Philippine Context	Deris Jan Antonio, Luna Shaida, Raymundo Nelfa Nicole, Lisbo Kenneth
Siala Mohamed	Preprimary Education In Tunisia	Ghorbel Amira, Ben Ammar Nehed
Mkwela Hawa	Student-Led Tree Growing Initiatives In Higher Education: Assessing Participation, Challenges, And Institutional Pathways For Environmental Sustainability In Tanzania	
Khánh Vũ	The Policy Of Renovation And University Governance Towards Sustainable Development Goals In Vietnam's Current Undergraduate Law Training Programs	
Rachid Hjadi	Voluntarism As A Driver Of Learning And Civic Engagement In Environmental Education	

Session 8-O

Main Author	Title	Co-Authors
Akrimi Rania	Design And Nature : Towards Sustainable And Innovative Education	
Elassassi Nadia	Offline Digital Platforms For An Eco-Friendly And Inclusive Pedagogy	Machwate Said, Bendaoud Rachid, Elasri Said
Mannan Motia	Fostering Sustainable Learning Through Online Technologies: Impact On English Proficiency And Student Engagement In Bangladesh	Maruf Tarekol Islam
Ouarrach Khadija	Integrating Solar Desalination Experiments Into Green Education: An Experimental Comparison Of Polished And Black-Painted Aluminium Absorbers Under The Semi-Arid Climate Of Oujda (Morocco)	Laaouar Boutahar, Moussaoui Mohammed Amine, Mezrhab Ahmed
Hmid Amine	Education For Sustainable Development: Towards An Ecological And Responsible Citizenship	Abdelghani Bachar

Lopes De Azevedo Maria	Nouvelles Pédagogies En Éducation Environnementale En Europe : Vers Une Citoyenneté Écologique Active Dans Les Écoles Et Les Communautés	
Hussain Mehtab	Effectiveness Of The Cognitive Load-Managed Phonics Routine (Clm-Phonics) In Improving Reading Skills Of Primary Students With Learning Disabilities	
Ng Hilary	Promoting Supportive Learning Community In Higher Education: The Role Of Self-Compassion	
Mohammed Rhiat	Environmental Awareness Through Smart and Green Educational Technologies	Ilias Atmane, Mohammed Karrouchi, Mustapha Melhaoui, Mostafa EL Ouariachi, Abdellah Touhafi, Kamal Hirech

Session 9-O

Main Author	Title	Co-Authors
Ryan Gautreaux	Vote Red, Vote Green: A Classroom Exercise of Gamified Power Dynamics, Societal Psychology, and Groupthink Dialectics	
Mouhib Imad	L'Analyse Emotionnelle et la Personnalisation des Parcours d'Apprentissage à l'aide des Agents Intelligents : Vers un Environnement Écologique et Cognitif Durable	Rachid El Ganbour
Ilias Atmane	Solar Hydrogen: An Educational Platform for Electrolytic Green Energy Production	Mohammed Rhiat, Kamal Hirech, Mustapha Melhaoui
Souzan Bentaleb	Les soft skills des enseignants comme levier d'une intégration éthique et inclusive de l'intelligence artificielle en éducation durable	
Mohamed Boughaydi	Améliorer Les Approches Expérimentales Dans L'Enseignement Des Sciences : Problématiques Clés Et Solutions	
Mohamed Amine Elouerdani	Phytodiversité et pressions environnementales dans le Maroc oriental: Diagnostic écologique, approche participative et éducative pour un développement durable	Souad Ben El Mostafa, Naoual Zitouni
Akter Mumu	Toward Sustainability Of Green Education: A Comparative Study Of Perspectives Within Islamic And Mainstream Institutions	
Ilham Benmoussa	La collaboration enseignante comme levier d'une éducation durable et inclusive : étude empirique dans le contexte marocain	

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