EXPLORING EDUCATION IN THE DIGITAL AGE: INNOVATIONS, INTERSECTIONS AND INSIGHTS

PREFACE

Dear esteemed readers and contributors,

It is with great pleasure and excitement that I extend a warm welcome to you all to this special edition of our journal, dedicated to exploring the diverse and dynamic themes shaping the landscape of education in the digital era. As we embark on this journey of discovery, each theme serves as a guiding beacon, illuminating the innovative intersections of technology and pedagogy.

Our first theme, Teaching based on Artificial Intelligence (AI), Machine Learning (ML), and the Internet of Things (IoT), sets the stage for our exploration by delving into the transformative potential of intelligent technologies in education. From personalized learning experiences to predictive analytics, AI, ML, and IoT hold the promise of revolutionizing traditional teaching methods and unlocking new pathways to knowledge acquisition.

Theme 2 invites us to immerse ourselves in the realm of 360 Learning, Virtual Reality (VR), Augmented Reality (AR), and Mixed Reality (MR). Here, we witness the fusion of physical and digital worlds, as learners embark on immersive journeys that transcend the confines of the traditional classroom. Through experiential learning and interactive simulations, VR, AR, and MR technologies redefine the boundaries of education, offering unprecedented opportunities for engagement and exploration.

In Theme 3, we explore the power of Collaborative Teaching, Global Learning, and innovative practices such as Gamification, Maker-Space, and Maker Lab initiatives. This theme underscores the importance of collaboration, cultural exchange, and hands-on experimentation in fostering creativity, critical thinking, and problem-solving skills among learners worldwide.

Theme 4 sheds light on the paradigm shift towards Open and Distance Learning (ODL), Self-Instructional Materials (SIM), and the utilization of Big Data Analytics in Learning. Here, we witness the democratization of education, as learners gain access to high-quality resources and personalized learning experiences irrespective of geographical constraints. Big Data analytics further enhance the educational landscape by providing insights into learner behavior and preferences, enabling educators to tailor instruction to individual needs.

In Theme 5, we explore the evolving role of Social Media Learning as a catalyst for knowledge dissemination, collaboration, and community building. From online forums to multimedia platforms, social media offers a dynamic space for peer-to-peer learning, digital literacy development, and the cultivation of virtual learning communities.

Theme 6 invites us to embrace Design Thinking for new Learning Delivery, emphasizing the importance of user- centered design principles in creating innovative and inclusive learning experiences. Through empathetic design, educators can reimagine learning environments that foster creativity, adaptability, and lifelong learning skills.

In Theme 7, we delve into Andragogy in technology-based learning, Instructional Design, and Best Practices in e-learning. This theme highlights the importance of learner-centered approaches, effective instructional design strategies, and the dissemination of evidence-based practices to optimize learning outcomes in the digital age.

Finally, Theme 8 explores the Development of e-learning systems, materials, and mobile technologies, including the emergence of MOOC-based mobile learning materials. Here, we witness the evolution of educational technologies, as mobile devices and online platforms redefine the boundaries of access and engagement in education.

As we navigate through these diverse themes, let us embrace the spirit of inquiry, collaboration, and innovation that defines our scholarly community. I extend my deepest gratitude to all the contributors who have enriched this journal with their insights and expertise. May this edition inspire new ideas, spark fruitful discussions, and contribute to the ongoing dialogue surrounding the future of education.

Thank you for your dedication and commitment to advancing the frontiers of knowledge in the field of education.

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Theme 1: Teaching based on Artificial Intelligence (Ai)/ Machine Learning (ML)/ Internet of Things (iOT)

1. Factors influencing the Internet of Things (IoT) implementation in fieldwork courses
2. Exploring the Potential of Artificial Intelligence in Chemical Engineering Education

Theme 2: 360 Learning/Virtual Learning Virtual Reality/Augmented Reality & Mixed Reality

1. Interactive 360-Degree Virtual Reality: The Acceptance among Educators and Learners in Public Higher Education in Malaysia
2. Post pandemic conceptual study on virtual learning method (VLM) in chemical engineering related courses

Theme 3: Collaborative Teaching or/and Global Learning/A.D.A.B in Teaching and Learning/ Gamification in Teaching and Learning/Maker-Space/ Maker Lab

1. The Implementation of Service-Learning Malaysia-University for Society (SULAM) Programme at Universiti Teknologi MARA Perak Branch, Malaysia
2. Group Conflict: Exploring Forming and Storming in Group Work
3. Incorporating the Concept of A.D.A.B into Curriculum Design: A Reflection Journey
4. Digital Game-Based Value Learning Model for Management Students in Malaysian Higher Education Institutions
5. A Systematic Literature Review of the Sustainable Transformational Leadership Practice and Relevant Impacts on School Teachers' Organisational Health
6. Exploring Optometry Students' Perspectives on Satisfaction within the Clinical Learning Environment
7. Exploring the Potentials of Robotic Inclusive Education in Supporting Students with Disablities

Theme 4: Open and Distance Learning (ODL)/Self Instructional Materials (SIM)/Big Data Analytics in Learning

1. Adaptive Learning in the Age of COVID-19: Exploring Psychomotor and Cognitive Impacts on Open and Distance Learning (ODL)
2. Programme Outcomes Attainment towards Psychomotor Skill Development during Open Distance Learning in Engineering Laboratory Courses

Theme 5: Social Media Learning

Theme 6: Design thinking for new Learning Delivery

1. Leading the Way: Self-Directed Learning and Leadership in University Student-Leaders

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Theme 7: Andragogy in technology-based learning/Technology in learning/Instructional design in learning/Best practices in e-learning

1. Challenges and Innovations: Adapting Practical Culinary and Foodservice Subjects for Distance Learning during COVID-19
2. Exploring Tertiary Education ESL Learners' Dependency on the Internet, Internet Sources, and Internet Source Reliability

Theme 8: Development of e-learning system/Development of e-learning materials/Development of mobile systems in Learning/Development of MOOC-based mobile learning materials

1. Student Acceptance with the Usage of Padlet in Guiding Research Statistics Analysis
2. MOOC Courses Development: Guidelines for GLAM MOOC