Introduction

Giovanni Pau

Faculty of Engineering and Architecture,
Kore University of Enna,
Cittadella Universitaria,
Plesso di Ingegneria,
94100 Enna, Italy
Email: giovanni.pau@unikore.it

Biographical notes: Giovanni Pau is an Associate Professor at the Faculty of Engineering and Architecture, Kore University of Enna, Italy. He received his Bachelor's in Telematic Engineering from the University of Catania, Italy, and both his Master's (Cum Laude) in Telematic Engineering and PhD from the Kore University of Enna, Italy. He is an author/co-author of more than 100 refereed articles published in journals and conference proceedings. He is a member of the IEEE (Italy Section) and has been involved in several international conferences as the Session Co-Chair and technical program committee member. He serves/served as a leading guest editor in special issues of several international journals and is an editorial board member as associate editor of several journals.

Educators must adapt to new and innovative teaching methods in this age of rapidly advancing technology. Extended reality, artificial intelligence, and the internet of things are changing education, while mobile technology and social media have led to the emergence of new teaching approaches like design thinking, agile and lean techniques, and crowdsourcing. These interactive and student-led methods redefine the role of learners, making digital and multimedia literacy essential for navigating a digital society that is rapidly evolving.

The digitisation of education has opened up opportunities for innovation in improving education quality at all levels. Sustainable education is more important than ever today, as individuals need to develop knowledge and skills to take action and consider their social, cultural, economic, and environmental impacts. High-performance computing and intelligent systems provide significant advantages in supporting sustainable education.

This special issue delved into the vital research findings on achieving educational innovation and sustainability in the digital era. It highlighted the educational principles that contribute to sustainable education. It is imperative to embrace these innovative approaches to maintain the relevance and effectiveness of education as a transition to a more technologically advanced society is going on. This special issue presents several articles that address these topics with absolute clarity, utmost efficiency, and a strong promise for a better future.

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