

Special Issue on "Digital Reality for Human Development through Innovative Strategies"

Human development, a multifaceted concept encompassing the growth and advancement of individuals in various dimensions of life, is at the core of this special issue. Recognizing the integral role of education in shaping individuals' cognitive, emotional, and social capabilities, the articles in this issue collectively underscore the transformative power of innovative educational strategies and teacher development.

Inclusivity and accessibility, key components of holistic human development, are illuminated through the application of assistive technology and virtual reality. Educational strategies and innovative approaches cater to diverse learning styles in unconventional ways.

The issue also touches upon the significant conclusions on the IT labor market and the shift towards online education. These discussions highlight the adaptability and resilience required in the face of global challenges, essential qualities in the continuous process of human development.

In concluding, this special issue not only presents a rich tapestry of research findings and insights but also serves as a beacon for future explorations in the realm of human development through education.

Nagy, Takács, and Czabán's study on "Being well and striving steady at work - The Relationship of Social Support and Self-Concordant Goal Selection with Teacher Burnout", which explores the intricate relationship between teacher burnout, social support, and goal selection. Their findings emphasize the importance of intrinsic motivation and social support in mitigating burnout among teachers, thereby enhancing the quality of teaching.

Rákosi and Pongrácz's paper on "The Impact System of Science Centers" offers a fresh perspective on the role of science centers in public education and career guidance, especially during challenging times like the COVID-19 pandemic. This article showcases how science centers can effectively contribute to STEM career orientation and public education.

Kövecses-Gösi in "Theoretical and practical issues of learning support in teacher training" addresses the crucial aspect of learning methodology and its role in teacher training, highlighting the importance of adapting to various learning styles and strategies.

Horváth, Lampert, and Pongrácz explore the "Opportunities of VR in History Teaching", a novel approach that harnesses virtual reality to enhance history education. This study reflects on the potential of modern technologies in creating engaging and effective learning experiences.

Demeter and Kovari's article on "Labor Market Analysis on IT jobs" shifts the focus to the impact of the COVID-19 pandemic on the IT labor market. Their analysis provides valuable insights into the current and future trends in this sector.

Pulay and Szabó, in their study "Developing visual perceptual skills with assistive technology", highlight the application of special educational software for children with cerebral palsy, thus contributing to the field of special education and assistive technology.

Rajcsanyi-Molnar, Balazs, and Andras's exploration of "Online Leadership Training in Higher Education Environment", a timely study that aligns with the increasing digitalization of education and training.

Hrmo, Szőköl, and Krištofiaková's paper on "Opportunities for Improving the Quality of Education and Pedagogical Teacher Training, within an International Context" offers an international perspective on teacher training, emphasizing the need for developing diverse competencies among educators.

Séllei, Krén, Molnár, and Stumphauser address the "Gaps and bridges between future managers and IT People", providing insights into the psychological dynamics between different professional groups and suggesting ways to improve their interaction.

Tomory's article on "The success of online education from a university student's perspective" offers a critical analysis of online education, particularly in the context of the COVID-19 pandemic, providing valuable student feedback on this mode of learning.

Karl, Nagy, Molnár, and Szűts, in "Supporting the pedagogical evaluation of educational institutions with WTCAi system", present an innovative approach to pedagogical monitoring and evaluation using artificial intelligence, illustrating the intersection of technology and education.

Námesztovszki, Molnár, Glušac, Major, and Grabovac's investigation into "Computer games and sports in light of personal background variables" provide intriguing insights into the role of technology in education and personal development.

Gyányi present their research on "Security Implications of Computer Botnets", provides a comprehensive overview of the current and future risks to society posed by botnets and increasingly widespread artificial intelligence.

Karl, Nagy, and Molnár, in "Exploring the Role of Human-Robot Interactions, within the Context of the Effectiveness of a NAO Robot", explores the role of human-robot interaction in the effectiveness of the NAO robot. It reviews the literature on human-robot interaction and highlights the key factors that contribute to successful human-robot interactions.

Kovari in "Industry 5.0: Generalized Definition, Key Applications, Opportunities and Threats" showcases the distinct and inventive customer experiences that Industry 5.0 provides, while also generating value for industrial companies. Additionally, a SWOT analysis delves into the strengths, weaknesses, opportunities and threats brought about by Industry 5.0.

Sebestyén and Kopják, in "Estimating Battery Life in TDMA Mesh-based Wireless Sensor Networks, for Merged Data Collection Method", provides a comprehensive description of battery life estimation and energy consumption in TDMA wireless mesh sensor networks. Specifically, we focus on the merged data collecting (MDC) method that utilizes lithium thionyl chloride batteries.

Király, Čonka, Rácz, Pálfi and Molnár, in "Vehicle-to-Grid (V2G) Charging of Electric Vehicles and its Influence on Microgrid Operations, from the Perspective of Electric Vehicle Utilization", deals with a general description of the functioning of the vehicle-to-grid system, which can be used in the operation of electric vehicles within a microgrid network.

Holik, Kersánszki, Márton, Sanda, in "Under the Spell of Video Games - Minecraft is an Opportunity for Game-based Learning" systematically examined the positive motivational impacts and adverse consequences associated with video game engagement.

Dakić, in "Significance of Standards Compliance Organizations for the Sustainable Automotive Software and Car Production". This article focuses more on the business side of the potential future applicability of software testing in a laboratory environment.

This special issue represents a significant contribution to the field of human development, offering a variety of perspectives and empirical findings. Each article not only stands on its own merit but also collectively enriches our understanding of the complexities and opportunities in human development today.

I hope that getting to know the content of this publication will contribute to professional development and even the formation of new personal relationships.

György Molnár
Guest Editor