

Special Issue

Virtual Reality, 3D Technology and Additive Manufacturing in Sustainable Design and Production

Message from the Guest Editors

Virtual Reality (VR), 3D technologies, and Additive Manufacturing (AM) are emerging as key tools to support sustainable practices across numerous production and industrial sectors. VR enables the development of immersive simulations to optimize production processes, assess complex scenarios, train operators, and improve the monitoring and control of operations, thus reducing costs and waste. Similarly, 3D technologies and Additive Manufacturing allow for the realization of complex components and products with efficient resource use, minimizing waste and reducing environmental impact throughout the life cycle. This Special Issue aims to collect original contributions exploring the integration of VR, 3D modeling, and AM to promote sustainable and innovative solutions. We welcome theoretical, methodological, and applied articles, as well as case studies, that demonstrate how these technologies contribute to production efficiency and environmental sustainability. We invite researchers and professionals to submit works that highlight the transformative potential of advanced digital tools in contemporary industrial contexts.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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