Design and Additive Technologies for Advanced Manufacturing. Best practices

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Abstract.
In the current scenario, Additive Manufacturing has established itself as a technological tool of great interest to quickly and flexibly adapt the manufacturing system to the new production needs and market inputs.

Additive technologies offer new design methods compared to traditional production processes with the result of favoring high levels of customization, versatility and precision and guaranteeing improvements in functionality and cost optimization.

In addition, green and smart design and production solutions are promoted that enable greater resource efficiency, both in production and use, through sustainable models and short value chains and localized production (Ford & Despeisse, 2016).

The aim of the paper is to identify possible future scenarios arising from the interaction between the discipline of industrial design and additive technologies and to investigate the possibilities arising from the use of these technologies in production contexts.

Through the recognition of best practices and representative case studies within the design discipline, the strengths and critical issues arising in the use of additive technologies will be highlighted in order to identify new configurations and design opportunities.

Additive Manufacturing has reached such a level of maturity that it can be used in different industrial sectors providing for other developments and greater diffusion for the future, as well as the possibility of integrating technological functions in order to improve the performance of the production system.

References
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