3D Printing of buildings, limits, design, advantages, disadvantages, may this technique contributes to the sustainability of the futures buildings

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**ABSTRACT**

Recently, a phenomenon of "printing" of houses and construction 3D printers has taken on or greatly increased in many parts of the world. This phenomenon is intensively shown in a variety of media and also in science news and science articles. 3D printers and house printing are praised to be very advantageous from economical, energetic and sustainable point of view. However, there are no norms or rules to cover this type of construction works. Also, a lack of methods for structural calculation and for certification of materials regarding "printing" is observed. Effects on future design and execution of this type of constructions, on the market labor and on education in construction domain are unknown. This paper tries to present the requirements of 3D-Printing applications in the field of constructions, limitation of current technologies, the advantages and disadvantages of 3D printed houses and the effects on the listed above sub-domains.

**Keywords:** 3D Printing, buildings, sustainability

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