**A Review on 4D Printing**

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**ABSTRACT**

Additive Manufacturing of smart materials is generally referred as 4D printing. The smart material makes the 3D structure dynamic by providing the fourth dimension to it. The fourth dimension is memorized by the material and it is programed as function of stimuli and time. Among the different smart materials, shape memory polymers exhibit good programmability, controllability apart from their excellent physical properties which makes these materials more suitable for 3D printing or Additive Manufacturing. In this study a brief review on the 4D printing of shape memory polymers is presented. Future prospects on additive manufacturing of shape memory polymer composites are also discussed.

*Keywords: Additive Manufacturing; 3D printing; Smart Materials*