

Creating Contemporary Parametric Fashion Designs Inspired by Islamic Motifs Using 3D Printing

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Abstract:

In scope of changes in all aspects of human factors affecting fashion which require finding innovative design solutions interact and fit with technological variables. This paper focuses on developing parametric contemporary fashion designs inspired by Islamic motifs aiming to contribute in the fashion industry by utilizing the manipulation of parametric design concept with 3D printing technique to benefit from modern technology. The research proves the applicability of mixing the parametric design with 3D printing to suit the functional aspect of women's daywear fashion targeting the age group (30-40). Another result is to reach a designed solution to be applied on Islamic motifs to produce a contemporary wearable fashion using parametric design and 3D printing. During the research three contemporary fashion lines were created inspired by three different Islamic motifs. Three outfits were tailored at the MOJA Design Studio in Egypt. Islamic motifs were printed using 3D printing techniques which were printed at the Kyoto Design Lab, Kyoto Institute of Technology (KIT), Japan using Rhinoceros/Grasshopper program.

Keywords:

Parametric Fashion, 3D Printing, Islamic Motifs