Parameterization Historical Women’s Sleeves

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Abstract. Nowadays, the garments with historical elements often are appearing in fashion shows and real life, and the historical-oriented style becomes very popular. The point of contemporary interest is historical sleeve shape. Between the 15th and 18th centuries, there were three different stages of costume design: Renaissance, Baroque and Rococo during which the sleeves of women's wear were varied. Historical sleeves are influencing the subsequent fashion design and indispensable excellent resource of inspiration. In this research the contours of women's sleeves were explored. This paper selects the famous brands Valentino and Chalayan, and analysis of an application of historical women's sleeve elements in the design. It provides a theoretical basis for the application of historical sleeve elements in contemporary women's wear, and a practical application in virtual reconstruction.

1 Introduction

Historical costume after its adopting and stylization are becoming the foundation of many contemporary styles designed by world’s famous fashion houses such as Valentino, Alexander McQueen, Delpozo, Chalayan, Christian Dior, Gucci, etc[1]. Shape of sleeves is the key part of costume design, as the best way to express the clothing shape in total. This research provides the results of extraction and grouping of typical contours of historical costume sleeves, and the comparison with contemporary famous brand design to find out how the brand uses historical elements.

2 Analysis of European women’s sleeve-shaped in 15th-18th

Portraits, historical paintings, satires and fashion paintings from museums and clothing historical books[2] from the 15th to 18th centuries present the women's dresses. The representative contour of each period reflected the fashion trend and characteristics of this period vividly and truly. The total of 1043 images were obtained through the above recourses and the grouping in according to the Renaissance (1450-1620), Baroque period (1620-1715) and Rococo period (1715-1789) respectively. By grouping and analyzing the collected historical pictures of sleeves, the representative sleeve shapes of the Renaissance, the Baroque and the Rococo periods have been concluded. The pictures were classified according to the differences in shape by using 18 categories such as sleeve capacity, shoulder height, length, etc[3].
3 Application of historical sleeves

This step analyzes Valentino and Chalayan’s fashion show 2016-2018 such as ready-to-wear (spring-summer SR, fall-winter FR) and high-couture (spring-summer SC, fall-winter FC). Statistical analysis of the number of historical styles in each fashion show accounted for the total number of garments. According to statistics, Valentino held six couture and six ready-to-wear fashion shows. Chalayan held six ready-to-wear fashion show. (Figure 1 shows the diagram, of the proportion historical sleeve-type clothing of Valentino and Chalayan’s brands in 2016-2018).
As shown in Table 1 shows the styles of historical sleeves and its preventatives in Valentino and Chalayan's fashion show. The software Adobe Illustrator CC was used to extract front sleeve contour and adjust it to red. It is used to highlight the effect and overlaid it on the front of the same sleeve type, which is compared with the corresponding frontal popular silhouette of the sleeve which is summarized in the classification system.

4 Conclusion

Through the classification of 1043 historical prototype from the 15th-18th century, the classification of women's sleeves was completed. After extracting a sleeve contours of the Renaissance, Baroque, and Rococo women dresses the average contours of each sleeve type were obtained. The Valentino and Chalayan's brands were statistically processed to establish the application of historical sleeve shapes in contemporary design. The method can be used to develop a virtual reconstruction of historical costume and contemporary design.

Reference