# *ABSTRACT*

***THE VIRTUAL ACCESSORIES ROOM DEVELOPMENT ON E-COMMERCE HEAVEN SKATEBOARDS DISTRO BANDUNG***

***BY***

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*The Heaven Skateboards Distro Bandung is located at Trunojoyo, 15 Bandung is one of distro which provided the product of Skateboard. So many crime costumer was stolen a hats or glasses, it's making a cost to the owner of the distro. Then, the accessories which was broke and dirty caused of rudely customer. This application is not (just) to safety of goods but also for adding the new innovations on the distro market system. So the owner is not restive to lose the accessories which sells and of sources, it's become the "eye catching" to customers who want to buy it.*

*Face tracking is a technic human face detection to be solution to virtual accessories application the distro. The method used to face tracking is Haar method with Haar Cascade Classifier algorithm used Marilena library. That is human face detection system on Haar specialized for human face detection by straight point of the camera. So, it cannot detect another face on the anywhere point. Steps in the process such as Haar data training, searching Haar feature, counting integral image and searching cascade classifier.*

*Based on Whitebox invented, we can point that the complexities of the Haar cascade classifier algorithm are seven. Then, the result of the performance method is produced at the right point to catch the right point of accessories to the right face, as round face is needed the short range than the oval face and tapering face. For the oval face is needed the short range than the tapering face. Meanwhile, the rate of range face detected is up to 70 cm.*

*Keywords : algorithm, Haar, Haar Cascade Classifier, Marilena library, virtual accessories, face tracking, performance testing, face.*