

Hand shape classification using Kernel Descriptor (KDES) on skin color data

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Abstract: This topic focuses on classifying hand shapes based on the Kernel Descriptor (KDES) model from color image data. The research aims to address the practical need for personal information recognition and management through fingerprints. Accordingly, it builds an efficient automatic classification system with the goal of application in fields such as security, medicine, and business. The research method combines KDES theory and experimentation to determine the accuracy and applicability of the model in classifying different hand samples. The expected results of the topic not only reflect progress in the field of image recognition but also provide the industry with innovative solutions for developing fingerprint-based security systems.

Keywords: Hand classification, Kernel Descriptor (KDES), Skin color data, Image recognition, Information security