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Comparison of Different combination Strategies for Face Localization

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Abstract : We present a comparison between different image fusion methods dedicated to the localization of faces in color images . The data to combine results from a connexionist model (auto-associative network), an ellipse model based on Generalized Hough Transform, and a skin color model . The combination methods compared have clearly different approaches . They include the Bayesian classifier with parametric or non-parametric technique, a fuzzy interface system , and a connexionist approach of the weighted average . Given an input image, we compute a kind of probability map on it with a sliding window . The face position is then determined as the location of the obsolete maximum over this map. Improvements of baseline detectors localization rates is clearly shown and prevalence of the weighted average is reported .