This paper proposes a method to correct the color-mismatch images of paintings based on artists' color features, and reproduce the exact color images under a specific illumination condition. First, we describe a standard image database consisting of oil paintings and an algorithm for extracting artists' color features. The color distribution is analyzed by PCA and described with an ellipsoid to represent the standard color features. Next, the color correction is based on the coordinate transformation of pixel values in a color-mismatch image so that the color features are fitted to the artist's color features. We present the correction algorithms using two color spaces of the sRGB and the CIELAB. Moreover, we describe a procedure for rendering the exact color images under a favorite illuminant. The correlated color temperature of scene illuminant is estimated and the color image under D65 is further transformed to a target image. The feasibility of the proposed method to recover the exact color images is examined with color-mismatch image samples of famous oil paintings.
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London-based artist Helen Butler creates meditative color field paintings which evoke a sense of calm. Atmospheric color is the focus of her practice. Butler uses a grey background to add to the calm feel of her work, with small-sized captions adding more information without distracting the eye. Format Theme: Grace. Canadian artist Claire Scherzinger challenges distinctions between high and low art by combining a sci-fi influence with a traditional oil painting aesthetic. Pictured is an overview of her portfolio including selected works from a recent series Shy Holograms which was inspired by the history of life on Mars.