



Material Appearance and Visual Understanding

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Message from the Guest Editor

Dear Colleagues,

Measuring, processing, understanding, and reproducing, not only the color and shape of objects, but also their appearance, have emerged as a recent topic of interest in the field of image engineering. For example, developing appropriate methods to measure and reproduce the glossiness and transparency of objects is important for the three-dimensional printing industry. Likewise, the development of a material classification method using captured images is indispensable for the robotics and automobile operation. Furthermore, since the appearance of a material influences our behavior, value judgment, and even emotions, extensive industrial applications are expected in this field. Through these engineering studies, we expect to gain new knowledge about the visual perception of materials, objects, and scenes, and develop new methodologies for correlating visual appearance to material properties.

Professor Takahiko Horiuchi
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Message from the Editor-in-Chief

The imaging term, specific with journal, is to be considered in its broadest sense. Image processing, image understanding and computer vision are all terms related to imaging acquisition, its processing and the extraction of relevant information from the scene to obtain the underlying knowledge. All tasks related to the above items are oriented toward specific applications in a broad range of areas and topics. The *Journal of Imaging* is conceived as an efficient vehicle in the scientific community for the communication and transmission of the progress and research results in the topics covered.

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