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# **Physics-based Computer Vision: Color and Photometry**

Guest Editor:

#### Dr. Daisuke Miyazaki

Image Media Engineering and Computer Graphics Laboratory, Department of Intelligent Systems, Graduate School of Information Sciences, Hiroshima City University, Hiroshima Prefecture 731-3194, Japan

Deadline for manuscript submissions: closed (30 November 2018)

#### Message from the Guest Editor

#### Dear Colleagues,

Color and photometry are two of the most important attributes of the natural environment. Light is an electromagnetic wave radiated from, for example, thermal sources or emissions caused by a transition from a high energy state to a lower energy state. When light interacts with materials, it reflects, transmits, scatters, polarizes, or is absorbed. Camera sensors and human eyes receive light as a result of complicated physical phenomena. Physicsbased vision is a research topic that analyzes physical phenomena in order to extract rich information from the scene. Recent growth of image sensors and computational tools have expanded the field of computer vision. Such innovation in terms of both hardware and software also provide rapid progress in the physics-based vision field.

The objective of this Special Issue is to provide opportunities to share new insights with researchers in various fields that will contribute to a future roadmap of physics-based vision. Papers must be original research of novel results or a suitable review of the current state-ofthe-art.

Dr. Daisuke Miyazaki Guest Editor





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# **Editor-in-Chief**

#### Prof. Dr. Raimondo Schettini

Department of Informatics, Systems and Communication, University of Milano-Bicocca, viale Sarca, 336, 20126 Milano, Italy

#### 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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*Journal of Imaging* Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/jimaging jimaging@mdpi.com X@J\_Imaging\_MDPI