Special Issue

Deep-Learning Approaches for High Dynamic Range Sensing and Imaging

Message from the Guest Editors

We are experiencing a large use of HDR technology in the entertainment sector, and are also starting to see its use in industrial applications. On the other hand, we are assisting in a paradigm change in the image-processing area, where traditional techniques are surpassed by more flexible deep-learning-based approaches. In the last few years, we are also observing this specific trend in the HDR imaging field. This has brought a number of challenges that need to be addressed in order to make deep-learning-based HDR approaches more robust and resilient to unseen data and/or data which is too noisy. Topics included but not limited to Deep-learning-based techniques for images/videos for:

- High dynamic range (i.e., camera, image and vision, sensors);
- Single/multi-exposure HDR content acquisition;
- Image fusion for HDR content;
- HDR formats and standardization;
- HDR objective metrics;
- HDR de-ghosting artifacts removal;
- Tone mapping/inverse tone mapping;
- Color correction for HDR content;
- Gamut adjustment for HDR content;
- Real-time HDR applications;
- Mixed reality for HDR;
- Image-based lighting.

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Deadline for manuscript submissions

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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