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Deep-Learning Approaches for High Dynamic Range Sensing and Imaging

Guest Editors:

Dr. Alessandro Artusi
Team Leader of DeepCamera MRG at CYENS, Nicosia CY-1011, Cyprus

Dr. Fotis Liarokapis
Cyprus University of Technology, Limassol, Limassol District 3036, Cyprus

Dr. Francesco Banterle
Visual Computing Lab, ISTI, Consiglio Nazionale delle Ricerche, 56126 Pisa, Italy

Deadline for manuscript submissions:
closed (10 May 2021)

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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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

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Contact Us

Sensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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mdpi.com/journal/sensors
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