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Advanced Measures for Imaging System Performance and Image Quality

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Message from the Guest Editors

Imaging systems are integral to our everyday experience. The measurement of imaging system performance and the evaluation of the produced image quality are essential in specifying system requirements and in optimizing their outputs for human or machine (vision) consumption.

Advances in imaging technologies (for example, sensors and image signal processes), as well as the wide use of deep learning networks for image understanding, require imaging system performance and quality measures that can successfully describe the imaging system variables and outputs with the appropriate accuracy, precision, and range, while they are adaptable to the environments and conditions that the systems operate.

This Special Issue addresses research associated with advanced imaging system performance and image quality measures that are suitable to the quantification of contemporary and future imaging systems. Papers discussing mechanistic/physical, statistical, and neural network-based evaluation and quantification methods, or other novel relevant techniques.



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Special Issue



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Message from the Editor-in-Chief

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