

## Special Issue

# Quantum Information in Imaging: Advances and Applications

### Message from the Guest Editor

Quantum information science has emerged as an important scientific undertaking that promises to transfigure some components of our information infrastructure. Some quantum information devices for improved communication and computation are finally taking shape and becoming a reality. Quantum imaging is another important aspect of the quantum information revolution. And this is the reason why this Special Issue of *Journal of Imaging* intends to provide a wide and comprehensive view of the theory, experiments, technologies, computational problems, potential applications, and challenges in the area of quantum imaging. Clearly, a major point of interest is the potential use of entanglement, squeezed states, and other quantum properties to increase the sensitivity and resolution of imaging sensors. But the challenges associated to quantum imaging go far beyond the design of novel quantum devices. We are looking for original research or state-of-the-art review papers in any of the areas associated to quantum information in imaging.

### Guest Editor

Dr. Marco Lanzagorta

US Naval Research Laboratory, Washington, DC 20375, USA

### Deadline for manuscript submissions

closed (15 January 2019)



## Journal of Imaging

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## About the Journal

### 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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### Editor-in-Chief

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