Special Section on 2D and 3D Imaging: Perspectives in Human and Model Observer Performance

Guest Editors:

Claudia Mello-Thoms, PhD
University of Iowa
Department of Radiology

Craig Abbey, PhD
University of California at Santa Barbara
Department of Psychology and Brain Sciences

Elizabeth A. Krupinski, PhD
Emory University
Department of Radiology and Imaging Services

Traditional studies in medical image perception have been conducted using 2D images, such as chest radiographs and mammograms. However, as volumetric (3D) imaging has become more widely used in radiology, there is a paucity of information about how observers interact with these images to render clinical decisions.

The theme of this special section is the characterization of differences between the use of 2D and 3D imaging as it relates to improved understanding of human decision-making processes, including, but not limited to:

- visual search,
- image perception,
- observer performance,
- human and model observers,
- cognitive processes,
- image understanding.

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