



# IEEE Biomedical Imaging & Diagnostics (BID) Workshop

Innovations in Biomarkers, Digital Pathology, & Radiology



## ORGANIZERS

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Recent advances in various Artificial Intelligence (AI) approaches have spurred the growth of Biomedical Image Processing applications. We already have algorithms that are deployed in hospital settings to aid clinicians with various tasks when it comes to the analysis of medical images. The main motivation behind the IEEE BID workshop is to introduce various recent image processing advances relevant to healthcare needs. Workshop's overarching objective is bringing engineers, computer scientists, and clinicians together to discuss main issues in this field. More specifically, while the main conference will focus on advances in image processing, the workshop will solely consider advances relevant to clinical applications such as biomarker discovery, pathology and radiology. The workshop is designed to initiate a broader conversation between the theoreticians in the field and researchers focused on the practical applications of image processing in medicine and physiology. We aim to address the main issues associated with biomedical image processing such as lack of large and annotated data sets, performance degradation of AI algorithms in real-world settings, and the need for reproducible research in the field. Lastly, the proposed workshop aims to become a future meeting ground for researchers interested in the applications of image processing in various clinical settings.

### Topics of interest include but not limited to:

- Biomedical Imaging Diagnostics and Prognostics
- Image-Based Biomarker Discovery
- Robust Image Processing Techniques with Limited Datasets
- (Semi)Autonomous Labeling for Medical Imaging Data
- Navigating the Variability in Medical Imaging
- The Human-AI Collaboration
- Personalized Medicine and Image Processing
- AI-Driven Multi-Modal Fusion Frameworks
- Precision Labeling in Medical Imaging

### IMPORTANT DATES

Paper Submission Deadline  
**May 9<sup>th</sup>, 2024**

Paper Acceptance Notification  
June 6, 2024



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Trustworthy Visual Data Processing

