Welcome to the 14th Augmented Environments for Computer-Assisted interventions (AE-CAI), 7th Computer-Assisted Robotic Endoscopy (CARE) and 3rd OR 2.0 joint workshop hosted online in conjunction with MICCAI 2020 on Sun, Oct. 4th, 2020!

PAPER SUBMISSION: Submit your contribution to the joint AE-CAI / CARE | OR 2.0 workshop by July 7th, 2020!

We invite papers formatted according to the Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization style files. Please visit The Author Guide, for both Microsoft Word and LaTeX templates. We recommend 12 page paper for initial submission for peer review and up to 15 page final submission post revision for final publication. The joint AE-CAI |CARE | OR2.0 joint workshop adheres to the double-blind peer review process - please follow the MICCAI anonymity guidelines when preparing your submission. Papers will be reviewed and assessed based on quality, scientific merit, and best means of presentation. We encourage submission of papers that demonstrate clinical relevance, clinical applications and validation studies.

Submit your contribution here: https://cmt3.research.microsoft.com/AECAI2020/

TOPICS TO BE ADDRESSED IN AE-CAI | CARE | OR2.0 INCLUDE, BUT ARE NOT LIMITED TO:

- Medical Augmented and Virtual Reality
- Surgical Simulation and Training
- Multimodal Data Visualization and Image Fusion
- Image-guided Surgical Navigation and Robotics
- Display Technology for Medical Imaging and Visualization
- Image Guided Intervention System and Platforms
- Human-Computer Interaction and Information Display
- Medical Image Formation, Analysis, and Interpretation
- Computer Assisted Intervention, Interventional Imaging
- Image-guided Robotics, Image-guided Intervention
- Surgical Planning and Simulation
- Systematic Extra- and Intra-corporeal Imaging Modalities
- General Biological and Neuroscience Image Computing
- Patient-Specific Modeling and Medical Image Understanding
- Robotic and navigated endoscopy
- Stereoscopic endoscopy
- Ultrasound endoscopy
- Endoscope tracking, navigation, planning and simulation
- Endoscopic video computing and computer vision for endoscopic applications
- Endoscopy skill training and evaluation
- Context-Aware Operating Theatres
- Surgical vision and perception
- Cognitive models
- Sensors, Wearable and implantable electronics and robots
- Decision support networks to enhance surgical procedural assistance
- Context-awareness and team communication in the operating theater
- Human-robot collaborative systems
- Surgical training and assessment

IMPORTANT DATES (SUBJECT TO CHANGE):

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PROCEEDINGS

Workshop proceedings will be published in a Special Issue on AE-CAI | CARE | OR 2.0 of the Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization journal.

AWARDS

Top papers will be recognized with a paper award sponsored by Northern Digital Inc. (NDI) and Intuitive Surgical.