

Point-of-Care Ultrasound: MICCAI 2017 Workshop

September 14, 2017

<https://blog.kitware.com/events/pocus-miccai2017/>



8:00 - 8:30	Introduction Stephen Aylward, Kitware, USA
Invited Talks	
8:30 - 9:00	Ultrasound Research at Johns Hopkins Emad Boctor, Johns Hopkins University, USA
9:00 - 9:30	Rapid Prototyping of Ultrasound-Guided Intervention Applications Gabor Fichtinger, Queen's University, Canada
9:30 - 10:00	E-FAST and Other In-Field Applications of Computer-Assisted Point-Of-Care Ultrasound Stephen Aylward, Kitware, USA
10:00 - 10:30	BREAK
Segmentation	
10:30 - 10:50	Combining Automated Image Analysis with Obstetric Sweeps for Prenatal Ultrasound Imaging in Developing Countries Thomas L.A. van den Heuvel, Radboud University Medical Center, The Netherlands
10:50 - 11:10	Automatic Estimation of the Optic Nerve Sheath Diameter from Ultrasound Images Samuel Gerber, Kitware, USA
11:10 - 11:40	Achieving fluid detection by exploiting shadow detection methods Matthias Noll, Visual Healthcare Technologies Fraunhofer IGD, Germany
Tracking	
11:40 - 12:00	A Probe-Camera System for 3D Ultrasound Image Reconstruction Koichi Ito, Tohoku University, Japan
12:00 - 12:20	Ultrasound Augmentation: Rapid 3-D Scanning for Tracking and On-Body Display Hastings Greer, Kitware, USA
12:30 - 1:30	LUNCH
Human Factors	
1:30 - 1:50	Overall Proficiency Assessment in Point-of-Care Ultrasound Interventions: The Stopwatch is not enough Matthew Holden, Queen's University, Canada
Quantification	
1:50 - 2:10	A Novel Ultrasound Imaging Method for 2D Temperature Monitoring of Thermal Ablation Chloe Audigier, Johns Hopkins University, Canada
Live Demonstrations	
2:10 - 3:30	Live Demonstrations <ul style="list-style-type: none">• A low-cost device for prenatal ultrasound imaging in developing countries Thomas L.A. van den Heuvel, Radboud University Medical Center, The Netherlands• Movies of a probe-camera system for 3D ultrasound image reconstruction Koichi Ito, Tohoku University, Japan• Volume reconstruction using accelerometer Andras Lasso, Queen's University, Canada• Traumatic brain injury assessment using a tablet-based ultrasound system Samuel Gerber, Kitware, USA• Combined tracking+surface scanning using RealSense. Andras Lasso, Queen's University, Canada• Fusing HoloLens and point-of-care ultrasound technology for intuitive procedure guidance Luv Kohli, InnerOptic, USA• Ultrasound augmentation using a pico projector and high-speed camera Hastings Greer, Kitware, USA
3:30 - 4:00	BREAK
Invited Talks	
4:00 - 4:30	Clinical Applications of Point-Of-Care Ultrasound Kevin Cleary, Children's National Health System, USA
4:30 - 5:30	Panel Discussion