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  
- 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