Commercializing CMUTs and Deep Learning to realize Worldwide Ultrasound Democratization

The Butterfly iQ is a sub $2000 portable ultrasound device capable of achieving whole body imaging (1 to 10 MHz). This presentation will explore the architecture used in this device, the use of CMUTs and extreme integration to achieve the price and performance goals, and the use of Deep Neural Networks to facilitate the acquisition and interpretation of ultrasound images for less skilled clinicians.