Title

"Skin Characterization with High-Frequency Ultrasound"

Abstract

Recent development of high-frequency ultrasound transducers has led to a vast range of applications in dermatology, such as the evaluation of tumors, burn injuries, skin aging, etc. The question examined in this research is "Does tissue structure change with different skin conditions?" Ultrasound data collected from in vivo studies in normal volunteers will be displayed as a B mode intensity image. Statistical characterization of the backscattered intensity signal will be conducted in order to glean parameters that may help differentiate between different states of tissue.