

عنوان مقاله:

Estimation of Breast Tumor Location using Phase Information and Received Signal Delay

محل انتشار:

فصلنامه ادوات مخابراتی، دوره 11، شماره 2 (سال: 1401)

تعداد صفحات اصل مقاله: 6

نویسندگان:

Mohammad Ali Pourmina - *Faculty of Mechanical, Electrical and Computer Engineering, Science and Research Branch, Islamic Azad University, Tehran, Iran*

javad Nouri pour - *Faculty of Mechanical, Electrical and Computer Engineering, Science and Research Branch, Islamic Azad University, Tehran, Iran*

Mohamad Naser Moghaddasi - *Faculty of Mechanical, Electrical and Computer Engineering, Science and Research Branch, Islamic Azad University, Tehran, Iran*

behbod Ghalamkari - *Faculty of Mechanical, Electrical and Computer Engineering, Science and Research Branch, Islamic Azad University, Tehran, Iran*

خلاصه مقاله:

In this article, a new method is proposed to find tumor's location. This process is based on the arrangement of sensors; the phase and distance to the cancer are given as well. Extraction of tumor distance and phase by Snell's law is the number of received pulses and the delay of receiving Signal. The transmitter antenna is in a fixed position, and the receiver rotates at a certain angular velocity around the tissue. Considering this information, a package solution in polar coordinates is presented. Meanwhile, angle and range information are extracted. Then the maximum probability estimate of the target location is given. This paper applies experimentally to simulated random data

کلمات کلیدی:

Tumor, interferometry, maximal probability, time difference of reception, breast tissue

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1589602>

