

Self exams at home!

Using The Breast Cancer Checker

- **Safe, Privacy**
- **Quick, Painless**
- **Accurate, more sensitive than human hand**
- **Portable size**

Nowadays advanced medical techniques, such as mammography, magnetic resonance imaging (MRI), X-ray mammography, positron emission tomography (PET), and ultrasonic diagnostic equipment have been used in breast cancer diagnosis.

However, it is inconvenient for women to under take frequent breast cancer medical examinations using the latest medical equipments.

Breast self-exams are also an important way to find a breast cancer early, which is easy for treatment. Not all cancer can be found in this way, but it is a necessary step you can and should take for yourself.

Detection of breast cancer and the regular monitoring of the response to neo-adjuvant chemotherapy are important issues to woman. To address this need, we developed a new instrument for examination of the stiffness of the breast using haptic sensor technology. The instrument consists of 64-array tactile sensors designed to visualize haptic information within the breast. With this novel haptic probe, it is able to discover the breast cancer larger than 10 mm located at depths less than 20 mm. We expect that proposed technologies will be applied for the detection and follow-up of treatment and predict the response to neo-adjuvant, chemotherapy.