情報電子工学科　論文発表

題名	Do Silicon Ultrasonic Transducers Dream of Becoming Mobile Tactile Display?
掲載雑誌	International Journal of Computing, Communication and Instrumentation Engineering
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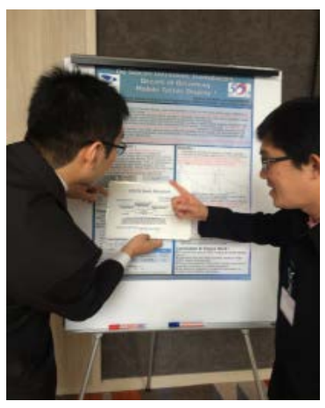
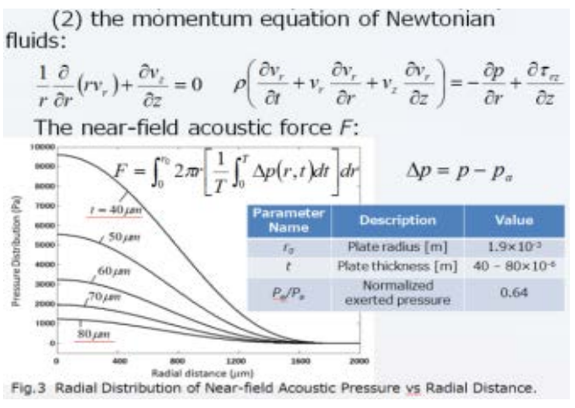
概　要	We examined theoretically the possibility of exploiting the capacitive micromachined ultrasonic transducers (CMUTs) as a tactile display device that generates two-dimensional pressure distribution above their surface via near-field acoustic radiation pressure effect. We found that with slight modification to existing CMUT geometry, 300Pa necessary for invoking tactile sensation is achieved with the spatial resolution of 3.8mm.
関連画像	   Fig.3 Radial Distribution of Near-field Acoustic Pressure vs Radial Distance.