



Lecturer

Asraf Bin Mohamed Moubark

M. Sc. (UKM), B.Eng (UNITEN)

EXPERTISE

- Ultrasound Imaging.
- Beamforming.
- FPGA.
- Digital Signal Processing.

RESEARCH

- Ultrafast Ultrasound Imaging.
- Enhancing B-Mode imaging for better cyst classification.

PROFESSIONAL AFFILIATIONS

- BEM - (P.Eng.), Electronic
- IEEE - Member, (93995919)

PUBLICATION

- TOTAL: 15
- H-Index: 3
- Citation: 26

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RESEARCH/COMMUNITY/CONSULTATION SNAPSHOT

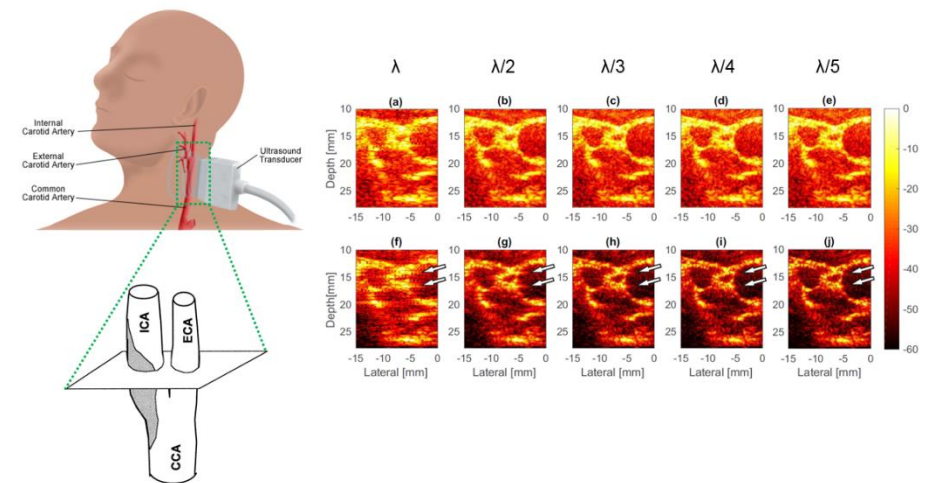


Fig. 1 : Carotid Artery of healthy person scanned with 2-cycle sinusoidal excitation signals and beamformed with delay and sum (DAS) and filtered delay multiply and sum (FDMAS) beamforming techniques

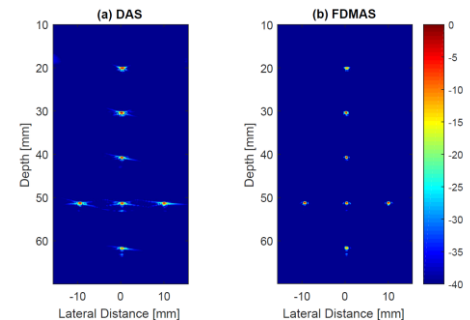
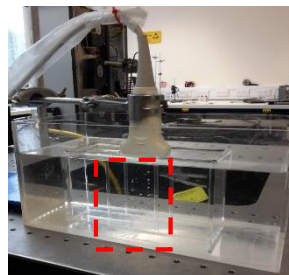


Fig. 2: Geometrical position of wire phantom inside degas water scanned with clinical ultrasound 3-8 MHz transducer with 57% bandwidth beamformed with a) DAS and b) FDMAS

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ELECTED PUBLICATIONS

1. "Ultrafast ultrasound imaging temporal resolution enhancement with filtered delay multiply and sum (FDMAS) beamforming." *The Journal of the Acoustical Society of America* 141.5 (2017): 3611-3611.
2. "Clutter noise reduction in b-mode image through mapping and clustering signal energy for better cyst classification." *Ultrasonics Symposium (IUS), 2016 IEEE International*. IEEE, 2016.
3. "Enhancement of contrast and resolution of B-mode plane wave imaging (PWI) with non-linear filtered delay multiply and sum (FDMAS) beamforming." *IEEE International Ultrasonics Symposium, IUS*. IEEE, 2016.
4. "Comparison of spatial and temporal averaging on ultrafast imaging in presence of quantization errors." *Ultrasonics Symposium (IUS), 2015 IEEE International*. IEEE, 2015.
5. "A novel sample based quadrature phase shift keying demodulator." *The Scientific World Journal* 2014 (2014).
6. "FPGA implementation of low power digital QPSK modulator using verilog HDL." *Journal of Applied Sciences* 13.3 (2013): 385-392.