

Looking Forward with Minimally Invasive Ultrasound

Jovana Janjic

1. Subdicing restores the piston-like behavior of misbehaving transducers. (*this thesis*)
2. Forward-looking ultrasound imaging is achieved by complex devices with simple algorithms or by simple devices with complex algorithms. The high cost of device engineering and low cost of computing power favor the latter approach. (*this thesis*)
3. Random catheter motion helps imaging. (*this thesis*)
4. Speckle is not noise. (*this thesis*)
5. Disrupting the phase coherence of an ultrasound beam is beneficial for imaging. (*this thesis*)
6. Any observation is a projection of reality onto our parameter space.
7. Common goals and commitment, not formal meetings, empower fruitful collaboration.
8. Great achievement is only possible by a scientist who accepts that theory and practice are two sides of the same coin. (*Pieter Kruizinga*)
9. Smooth seas do not make skilful sailors. (*African proverb*)
10. Scientific results achieved through shortcuts are short-lived.
11. Прогресивни развој човека је у тесној зависности од проналазака. Проналазак је најбитнији производ људског ума
The progressive development of man is vitally dependent on invention. It is the most important product of his creative brain. (*Nikola Tesla*)