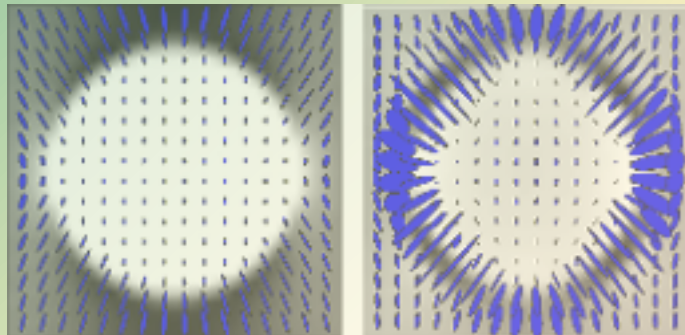


Abdul Wahab (KAIST, KOREA)

26 September, 14:30 - 15:30

AS-SMS, Lahore



Compressive Sensing Based Elasticity Imaging

In this talk, I will focus on an inverse problem arising in Magnetic Resonance Elastography. A compressive sensing based algorithm will be presented for efficient and accurate reconstruction of the spatial support and material parameters of multiple inhomogeneous elastic inclusions in a bounded elastic material. Only a few measurements of the elastic displacement field over a very coarse grid (in the sense of Nyquist sampling rate) will be taken into account, on contrary to classical algorithms assuming continuous or dense grid measurements. Our proposed algorithm is not only very accurate but also computationally efficient as it does not require any linearization or iterative procedure.



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