

# Xinqiang Yan, Ph.D.

Vanderbilt University Institute of Imaging Science

Research Associate Professor of Radiology & Radiological Sciences, Electrical and Computer Engineering



## ***"Unveiling Recent Innovations in MRI RF Coil: Importance of Customized, Flexible, Low-Cost and Wireless Coils."***

### Abstract:

Radiofrequency (RF) detectors, commonly called coils, play a vital role in advancing the quality of MRI images. In this presentation, I aim to provide insights into recent transformative efforts focused on developing flexible, low-cost, wireless, and customized RF coils to enhance the overall quality of MRI imaging. By delving into the technical intricacies of RF coil design, I will uncover how these innovative approaches strive to overcome traditional limitations, offering tangible benefits such as improved signal-to-noise ratio, cost-effectiveness, and enhanced patient comfort.