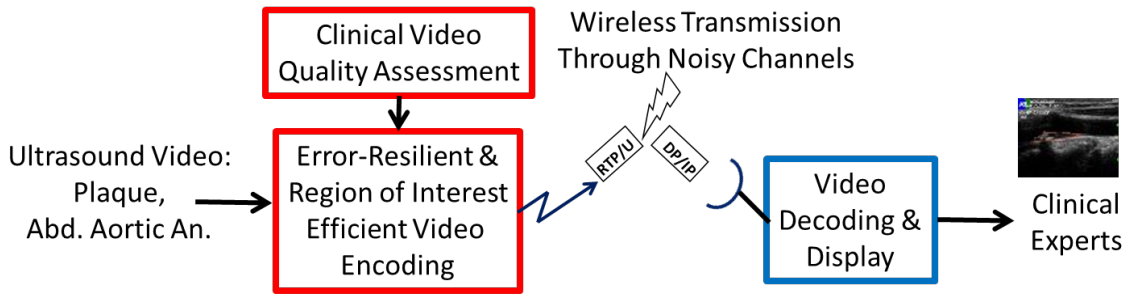# E4: Image Processing

Fig. 1. Wireless ultrasound video transmission for telemedicine applications (www.ivpcl.org).

The image processing area is concerned with the development of models, systems, and methods for processing and communicating digital images and videos. Due to the explosive growth in the availability and demand for digital images and videos, there is strong interest in the development of new approaches for video compression, video quality assessment, image and video analysis, and applications to biomedical image analysis. Active UNM research in this area includes the development of new methods and systems for digital video compression, new models for medical image analysis and visualization, and synthetic aperture radar imaging.

Area Chair: Prof. Marios Pattichis (www.ivpcl.org)

Faculty Members:

Prof. Vince D. Calhoun (http://mialab.mrn.org/)

Prof. Majeed Hayat (http://www.ece.unm.edu/faculty/hayat/main.htm)

Prof. Ramiro Jordan (http://www.ece.unm.edu/faculty/rjordan/)

Prof. Balu Santhanam (http://www.ece.unm.edu/faculty/bsanthan/)

Prof. Yin Yang (http://ece.unm.edu/~yyang)

Major core courses:

E ECE533 Digital Image Processing (Spring),

ECE541 Probability Theory & Stochastic Processes (Fall),

ECE539 Digital Signal Processing (Spring).