

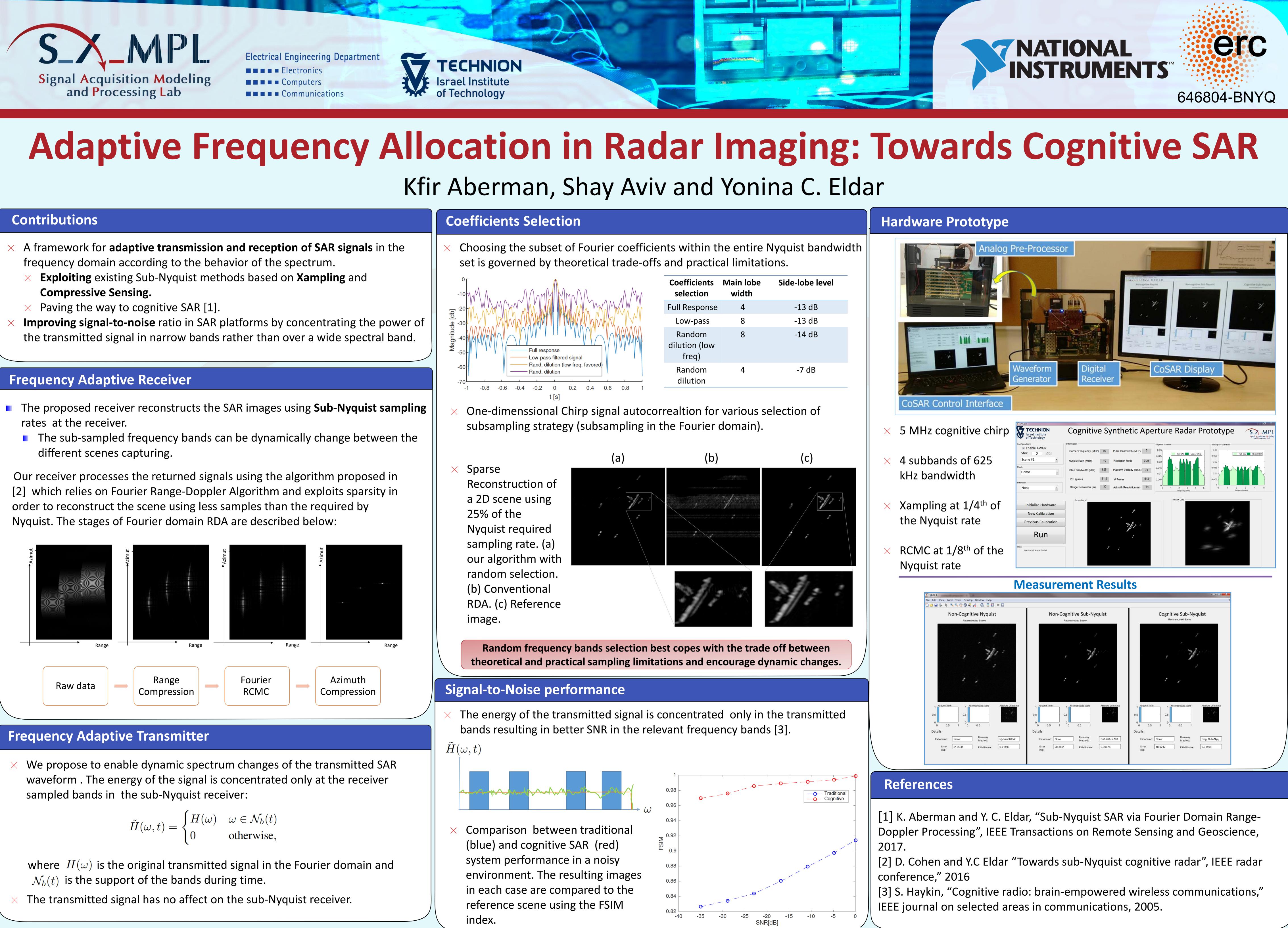
# Contributions

- - **Compressive Sensing.**

# **Frequency Adaptive Receiver**

- rates at the receiver.
  - different scenes capturing.

Nyquist. The stages of Fourier domain RDA are described below:



## **Frequency Adaptive Transmitter**

$$\tilde{H}(\omega, t) = \begin{cases} H(\omega) & \omega \in \mathcal{N}_b(t) \\ 0 & \text{otherwise,} \end{cases}$$

oefficients selection	Main lobe width	Side-lobe level
ll Response	4	-13 dB
Low-pass	8	-13 dB
Random ution (low freq)	8	-14 dB
Random dilution	4	-7 dB

