

From the records, we can find that:
IIR is better for tracking;
MAF and FIR are better in reducing noise.

MAF/FIR scalars: 10

IIR filter: average = $0.2 \cdot \text{previous} + 0.8 \cdot \text{new}$;

FIR filter coefficients: $\{0.01, 0.02, 0.03, 0.04, 0.1, 0.12, 0.14, 0.16, 0.18, 0.2\}$;

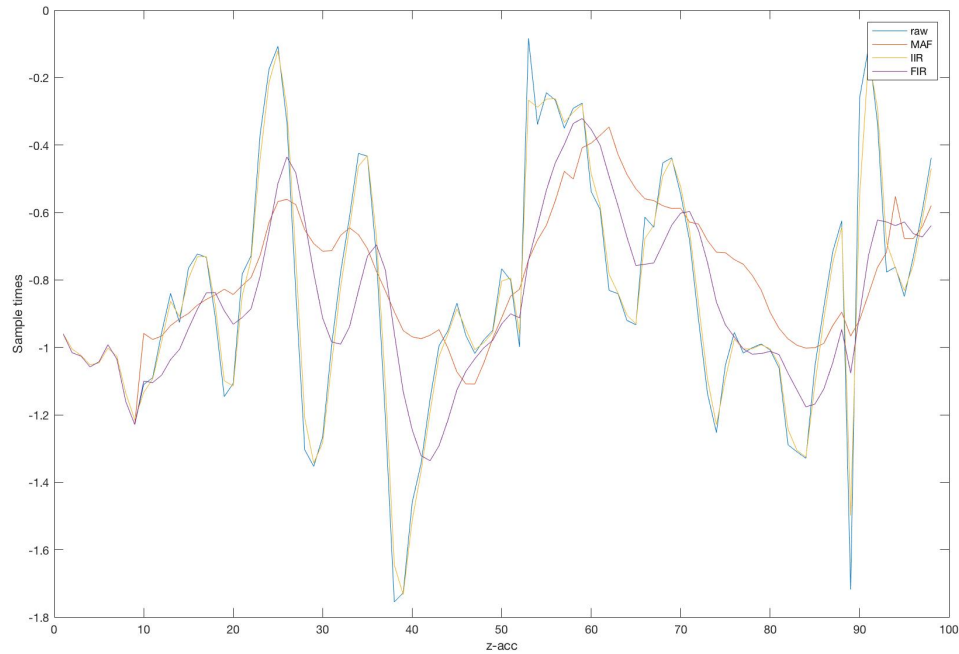


Figure 1

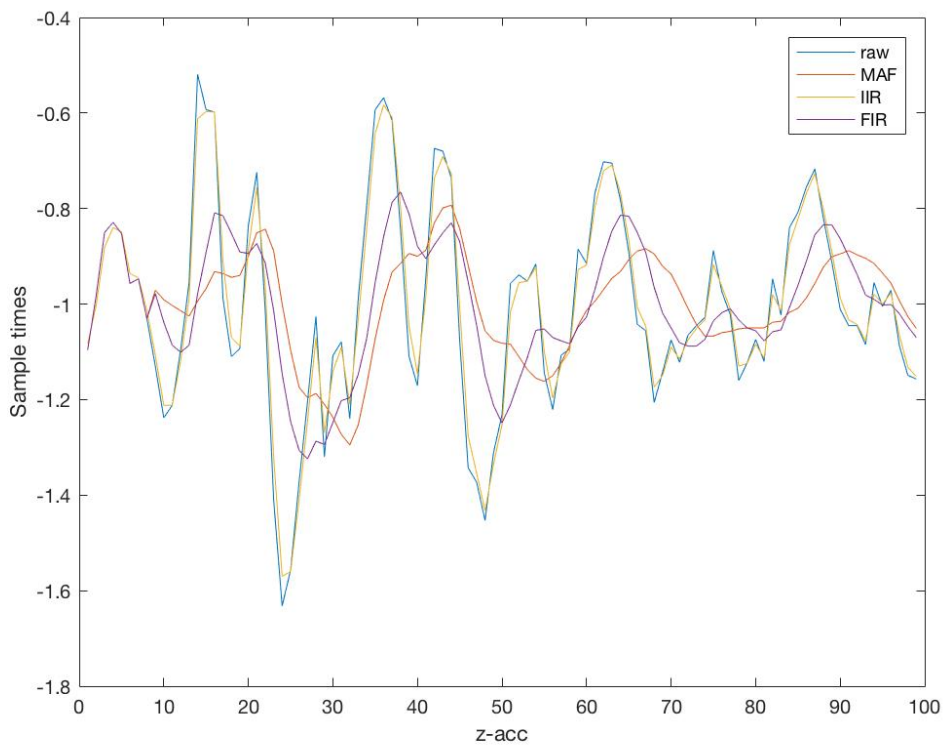


Figure 2