Boxplot of ARL₁ for Various Models on Streaming Data with z and alpha: z:1.96 alpha:1.5, Mean Gap Size of 5, Data Variance of 9 (Outliers in out-of-control Period) 25.0 22.5 20.0 10.0 CTM (Z:1.96, a:1.5, (0.15, 10)) (2:1.96, a:1.5,30) SWM (2.1.96, 8.1.5, 15) CTM (2:1:96,8:1.5,(0.1, 15)) CTM (2:1:96, 2:1.5, (0:1, 20)) SWM (2.1.96, a.1.5, 25) CTM (Z:1.96, a:1.5, (0.15, 15)) WM (2:1.96, 2:1.5, (0.15, 20)) CTM (Z:1.96,2:1.5,10.15,20)) CTM (2:1.96, 3:1.5, (0.2, 10)) CTM (2:1.96,8:1.5,(0.1,10)) TM (Z:1.96, 2:1.5, (0.1, 15)) WM (Z:1.96,8:1.5,(0.1.15)) SWM (2.1.96, a.1.5,20) TM (Z:1.96, a:1.5, (0.1, 20)) WM (Z:1.96,2:1.5,(0.1,20)) WM (Z:1,96,3:1,5,(0,15,15)) TM (2:1.96, a:1.5, (0.15, 20)) TM (Z.1.96, 3:15, (0.2, 10)) WM (Z:1.96,8:1.5,10.2,10)) TM (Z:1.96,a:1.5,10.2,15)) CTM (2:1.96, 2:1, 5, (0:2, 15)) WM (Z:1,96,8:1,5,(0.1,10)) TM (Z:1.96, 8:1, 5, (0.15, 10))

Model (Parameters)

 ARL_1