Boxplot of ARL₁ for Various Models on Streaming Data with z and alpha: z:1.96 alpha:2.5, Mean Gap Size of 10, Data Variance of 9 (Outliers in in-control Period) 20.0 17.5 15.0 12.5 10.0 2.5 CTM (Z:1.96, a:25, (0.15, 10))
SWM (Z:1.96, a:25,30) CTM (2:1.96, 2:2.5, (0:1, 10)) CTM (Z:1.96, 8:2.5, (0.1, 15)) CTM (2:1.96, 2:2.5, (0:1, 20)) SWM (2.1.96.8.2.5,25) WM (z:1.96,8:2.5,10.15,10)) WM (2:1.96, 2:2.5, (0.15, 20)) CTM (Z:1.96, a:2.5, (0.15, 20)) CTM (2:1.96, a: 2.5, (0.2, 10)) CTM (2:1.96, 2:2.5, (0.2, 15)) TM (Z:1.96,a:2.5,(0.1, 15)) WM (Z:1.96,8:25,(0.1.15)) SWM (2.1.96.a.2.5,20) TM (Z:1.96,a:2.5,(0.1,20)) WM (Z:1.96,8:25,(0.1,20)) WM (Z:1.96,8:2.5,(0.15, 15)) CTM (Z:1.96,a:25,(0.15, 15)) TM (Z:1,96,8:2.5,(0.15,20)) TM (2.1.96, a.2.5, (0.2., 10)) WM (Z:1.96,8:25,(0.2, 10)) TM (Z.1.96,a:2.5,(0.2, 15)) WM (Z:1.96,8:25,(0.2, 15)) WM (Z:1,96,8:25,(0.1,10)) TM (Z:1.96, 8:2.5, (0.15, 10))

Model (Parameters)

 ARL_1