Boxplot of ARL<sub>1</sub> for Various Models on Streaming Data with z and alpha: z:1.6449 alpha:1.5, Mean Gap Size of 5, Data Variance of 4 (Outliers in in-control Period) CTM (Z:1.6449, a:1.5, (0.15, 10))

CTM (Z:1.6449, a:1.5, (0.15, 10)) WM (2:1.6449, a:1.5, (0.1, 20)) WM (Z:1.6449, 8:1.5, (0.1., 10)) CTM (Z:1,6449, a:1,5,10.1,10)) WM (Z:1.6449, 8:1.5, (0.1.15)) CTM (Z:1,6449, 2:1,5,10.1,15)) CTM (Z:1,6449, 3:1,5,10,1,20)) TM (Z:1,6449, a:1,5,(0.15, 10)) WM (Z:1,6449,a:1.5,10.15,10)) WM (Z:1.6449, 2:1.5, (0.15, 15)) TM (Z:1.6449, a:1.5, (0.15, 20)) WM (Z:1,6449,3:1.5,10.15,20)) CTM (2:1.6449, a:1.5, (0.15, 20)) WM (2:1,6449, a:1,5,(0.2,15)) CTM (Z:1,6449, a:1.5,10.2, 15)) SWM (2.1.6449, 2.1.5, 15) TM (Z:1,6449,a:1.5,(0.1.15)) TM (Z:1,6449,2:1.5,10.1,20)) TM (Z:1,6449,a:1,5,(0.15, 15)) CTM (Z:1.6449, a:1.5, (0.15, 15)) TM (Z:18449, 2:1.5, (0.2, 10)) WM (Z:1,6449, a:1,5, (0.2, 10)) CTM (Z:1, 6449, a:1, 5, (0, 2, 10)) TM (Z:1,6449,3:1.5,10.2,20)) SWM (2.1.6449, 2.1.5,20) SWM (Z.1 6449, a.1.5,25) TM (Z:1,6449,a:1.5,10.2,15))

Model (Parameters)

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ARL<sub>1</sub>