Boxplot of ARL₁ for Various Models on Streaming Data with z and alpha: z:1.96 alpha:2, Mean Gap Size of 10, Data Variance of 9 (Outliers in out-of-control Period) CTM (Z:1.96, a:2, (0.1, 15)) SWM (Z:1.96, a:2,20) CTM (Z:1.96, a:2, (0.15, 10)) a:2,30) WM (2:1.96, a:2, (0.1, 15)) TM (Z:1.96,3:2,(0.1,20)) WM (Z:1.96, 2:2, (0.1, 20)) CTM (z.1.96, a.2, (0.1, 20)) WM (X:1.96, a:2, (0.1, 10)) CTM (2:1.96, a:2, (0.1, 10)) SWM (Z.1.96,a.2.15) TM (Z:1.96,3:2,(0.1,15)) WM (Z:1,96,8:2,(0.15,10)) WM (z:1.96, a:2, (0.15, 15)) CTM (Z:1.96,8:2,(0.15, 15)) TM (Z:1.96, a:2, (0.15, 20)) WM (Z:1.96, a:2, (0.15, 20)) CTM (z:1.96,3:2,(0.15,20)) TM (Z:1,96,3:2,(0.2,10)) WM (z:1.96, a:2, (0.2, 10)) CTM (Z:1.96, a:2, (0.2, 10)) TM (Z:1,96,3:2,(0.2,15)) WM (z:1.96, a:2, (0.2, 15)) CTM (z.1.96, a.2, (0.2, 15)) SWM (2.1.96, a.2, 25) TM (Z:1,96,8:2,(0.15,10))

Model (Parameters)

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 ARL_1