We would like to thank Maedeh Abbasi Oskouei, Dr. Hassan Tavakkoli, and their team for discovering the error in calculating the threshold values in our simulations.

The error has been discovered in the following works:
[1] Y. Sun and B. Cyr, "Information Aging Through Queues: A Mutual Information
Perspective," 2018 IEEE 19th International Workshop on Signal Processing Advances in Wireless Communications (SPAWC), Kalamata, 2018, pp. 1-5.
[2] Y. Sun and B. Cyr, "Sampling for data freshness optimization: Non-linear age functions," in Journal of Communications and Networks, vol. 21, no. 3, pp. 204-219, June 2019.

The error occurred when calculating $\beta$ in the simulation of the optimal sampling policy, where $E\left[D_{i+1}-D_{i}\right]$ was being computed incorrectly. This affected the following figures:

## In [1]:

- Figure 2: $\beta$ was incorrectly calculated. The figure will be replaced with a new figure with new transmission times.


Fig. 2. A sample-path illustration of the optimal sampling policy (14) and (15), where the service time $\mathrm{Y}_{\mathrm{i}}$ is equal to either 1 or 7 with equal probability. On this sample-path, the service times are $\mathrm{Y}_{0}=1, \mathrm{Y}_{1}=7$, $\mathrm{Y}_{2}=7, \mathrm{Y}_{3}=1$, and $\mathrm{Y}_{4}=7$.

## In [2]:

- Above (57), the parameter $c$ is not necessarily a positive number; instead, $c$ can take any real value.
- Figure 5: $\beta$ was incorrectly calculated. The updated figure and caption are shown below.


Fig. 5. A sample-path illustration of the optimal sampling policy (45) and (46), where $\beta=0.142, \mathrm{Y}_{\mathrm{i}}$ is either 1 or 7 with equal probability, Si and Di are sampling time and delivery time of the i-th sample. On this sample-path, the service times are $\mathrm{Y}_{0}=1, \mathrm{Y}_{1}=7, \mathrm{Y}_{2}=7, \mathrm{Y}_{3}=1$, and $\mathrm{Y}_{4}=7$.

- Figure 8: The average penalty was calculated incorrectly. The new figure 8 is shown below:


FFig. 8. Average age penaltyof an exponential penalty function $p_{\exp }(\Delta t)=e^{\alpha \Delta t}-1$ versus the coefficient $\alpha$, where the service times $Y_{i}$ follow a discretized log-normal distribution

- Figure 9: The average penalty was calculated incorrectly. The new figure 8 is shown below:


Fig. 9. Average age penalty of an exponential penalty function $p_{\exp }(\Delta t)=e^{\alpha \Delta t}-1$ versus the coefficient $\sigma$ of discretized log-normal service time distribution.

