Erratum to: Performance Evaluation of IEEE 802.11 DCF in Single Hop Ad Hoc Networks

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Equation (27) in the original publication should have read as shown below, including the stationary probability and its specification in an additional Eq. (28).

$$\tau = b_{(0,0)e} \left(\frac{q^2 W_0}{(1-p)(1-q)(1-(1-q)^{W_0})} - \frac{q^2(1-p)}{(1-q)} \right) \quad (27)$$

Here $b_{(0,0)e}$ is stationary probability of a node such that backoff process is complete and there is no packet available for transmission.

$$\begin{aligned} \frac{1}{b_{(0,0)e}} = & (1-q) + \frac{q^2 W_0 (W_0 + 1)}{2(1-q)(1-(1-q)^{W_0})} + \frac{q(W_0 + 1)(p(1-q) - q(1-p)^2)}{2(1-q)} \\ & + \frac{pq^2}{2(1-q)(1-p)} \left[\frac{W_0}{1-(1-q)^{W_0}} - (1-p)^2 \right] \left[\frac{2W_0(1-p-p(2p)^{m-1})}{1-2p} + 1 \right] \end{aligned} \quad (28)$$

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