

# Erratum to: Energy Conservation via Antenna Scheduling in Fiber-Connected Femto Base Stations

Haoming Li · Alireza Attar · Victor C. M. Leung

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In the original version of this article, the channel bandwidth  $B$  was missing in the definition of energy efficiency and the total number of users was inadvertently removed in the simulation scripts of energy efficiency. As a result, the following corrections are needed.

The sentence in the beginning of Section 3, “Define energy efficiency as  $\eta_e = \eta_s/P_{avg}$ , where  $\eta_s$  is”, should be written as “Define energy efficiency as  $\eta_e = B \cdot \eta_s/P_{avg}$ , where  $B$  is the channel bandwidth,  $\eta_s$  is”. Equations (10) and (18) should have a multiplication constant  $B$  in their numerators:

$$\eta_e = B(c_1 \ln P_{AE} + c_2)/(BP_{AE}/\gamma + c_3), \tag{10}$$

$$\frac{\partial^2 \eta_e}{\partial P_{AE}^2} \Big|_{P_{AE}=P^*} = \frac{-B\gamma c_1}{(P^*)^2 (BP^* + c_3\gamma)} < 0. \tag{18}$$

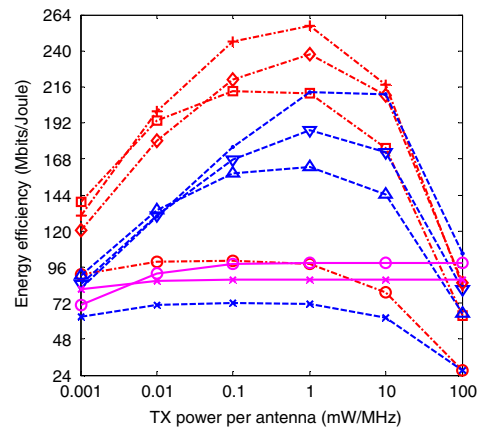
In the right subfigure of Figure 3, the unit of Y-axis should be “Mbits/Joule”, i.e.,  $10^6$  bits/Joule, and the Y-axis labels should be “24, 48, 72, 96, 120, 144, 168, 192, 216, 240, 264”. The correct subfigure is shown as follows:

The online version of the original article can be found at <http://dx.doi.org/10.1007/s11036-012-0395-x>.

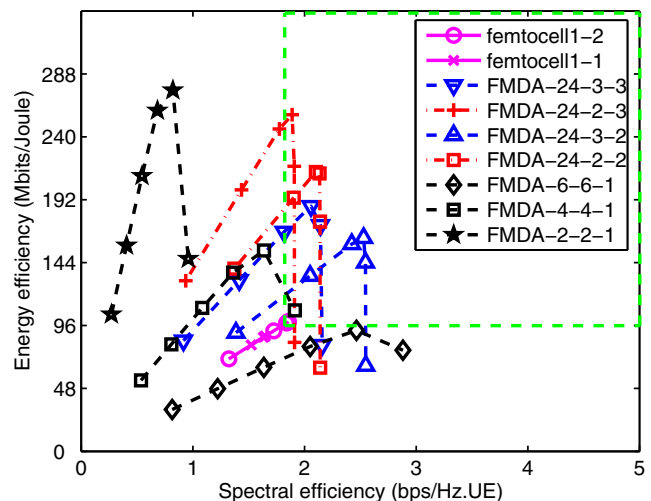
H. Li (✉) · A. Attar · V. C. M. Leung  
 Department of Electrical and Computer Engineering, The University of British Columbia, 5500-2332 Main Mall, Vancouver, BC V6T1Z4, Canada  
 e-mail: hlih@ece.ubc.ca

A. Attar  
 e-mail: attar@ece.ubc.ca

V. C. M. Leung  
 e-mail: vleung@ece.ubc.ca



In Fig. 4, the unit of Y-axis should be “Mbits/Joule” and the Y-axis labels should be “0, 48, 96, 144, 192, 240, 288”. The correct Fig. 4 is shown as follows:



**Fig. 4** Energy efficiency vs. spectral efficiency under different  $P_{AE}$  ( $10^{-3} \sim 10^2$  mW/MHz)

As the channel bandwidth in this article is fixed at 10 MHz and the total number of users is fixed at 48, the above errors do not affect the optimization

results in Section 3 or the energy efficiency comparisons in Section 5. We apologize to our readers for these errors.